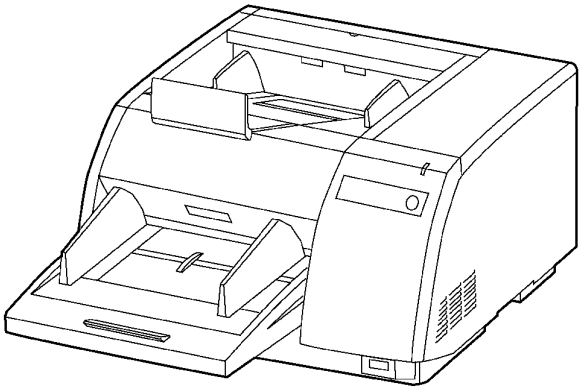
Order Number KM70410959C0
Category Number H19

Service Manual

High Speed Color Scanner

KV-S3065CLSERIES
KV-S3065CWSERIES



⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 GENERAL PRECAUTIONS

1.1. Safety Precautions

1. Before servicing, unplug the power cord to prevent electrical shock hazard.
2. When replacing parts, user only manufacture's recommended components for safety.
3. Check the condition of power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, perform the following electrical tests to prevent shock hazard.

1.2. Electrical Tests

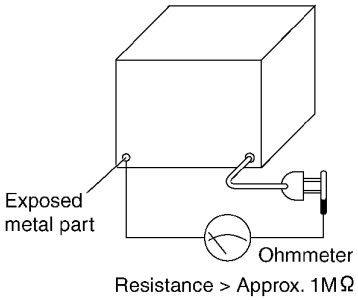
1. Unplug the power cord and check for continuity between the earth ground connection on the plug and the metal cabinet. There should be zero ohm resistance found.
2. With the unit unplugged, short the AC Live-Neutral of the plug with a jumper wire.
3. Turn ON the power switch.
4. Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads, etc.

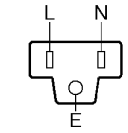
 Note

 Some exposed parts may be isolated from the chassis by design. They read infinity.
5. If the measurement is less than 1 MΩ, a possibility for electric shock may exit.

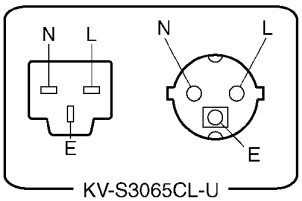
 Note

 This hazardous condition must be corrected before the unit is returned to the end user.

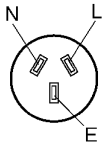




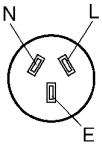
KV-S3065CL
KV-S3065CW
KV-S3065CL-T
KV-S3065CW-T



KV-S3065CL-U
KV-S3065CW-U



KV-S3065CL-A
KV-S3065CW-A



KV-S3065CLCN
KV-S3065CWCN

1.3. For Service Technicians

ICs and LSIs are vulnerable to static electricity.

When repairing, the following precautions will help to prevent recurring malfunctions.

1. Cover the plastic parts with aluminum foil.
2. Ground the soldering irons.
3. Use a conductive mat on the worktable.
4. Do not grasp IC or LSI pins with bare fingers.

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1.4. About Lead Free Solder (PbF: Pb free)

Note

- **In the information below, Pb, the symbol for lead in the periodic table of elements, will refer to standard solder or solder that contains lead.**
- **We will use PbF when discussing the lead free solder used in our manufacturing process which is made from Tin (Sn), Silver (Ag), and Copper (Cu).**
- **This model, and others like it, manufactured using lead free solder will have PbF stamped on the PCB. For service and repair work we suggest using the same type of solder although, with some precautions, standard Pb solder can also be used.**

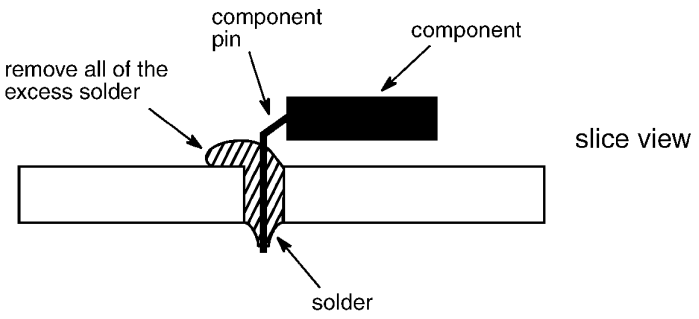
Distinction of PbF PCB

- **PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.**

Caution

- **PbF solder has a melting point that is 50 ° - 70 °F, (30 ° - 40 °C) higher than Pb solder.**

 Please use a soldering iron with temperature control and adjust it to 700 ° ± 20 °F (370 ° ± 10 °C). In case of using high temperature soldering iron, please be careful not to heat too long.
- **PbF solder will tend to splash if it is heated much higher than its melting point, approximately 1100 °F, (600 °C).**
- **If you must use Pb solder on a PCB manufactured using PbF solder, remove as much of the original PbF solder as possible and be sure that any remaining is melted prior to applying the Pb solder.**
- **When applying PbF solder to double layered boards, please check the component side for excess which may flow onto the opposite side (See figure, below)**



1.4.1. Suggested Pb free solder

We recommend you to use the following solder when you re-solder components for repair. Before using other Pb free solder than the following solder, be sure to confirm a solder maker you appoint has made license agreements to be required when using Pb free solder legally.

Supplier: Senju Metal Industry Co., Ltd. (http://www.senju-m.co.jp)

Part Description in Senju: EcoSolder RMA02 P3 M705 Series

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2 SPECIFICATIONS

Item			Model No.	
			KV-S3065CL Series [*1]	KV-S3065CW Series [*2]
Scanner	Scanning face		Duplex	
	Scanning method		CIS (Contact-type color Image Sensor): Front & Back sides	
	Scanning Width		227 mm (9.0 in.)	302 mm (11.9 in.)
	Readout speed		Black & White: 60 ppm/110 ipm (A4, 200 dpi, Portrait) 65 ppm/120 ipm (Letter, 200 dpi, Portrait) Color: 60 ppm/110 ipm (A4, 200 dpi, Portrait) 65 ppm/120 ipm (Letter, 200 dpi, Portrait)	
	Resolution		Main scanning direction: 100~600 dpi (1 dpi step) Sub-scanning direction: 100~600 dpi (1 dpi step) Optical resolution is 600 dpi.	
	Image output		Binary, Grayscale, Color, [*5]Multi-stream™ (Binary and Color, Binary and Grayscale)	
	Tonal gradation		Dither (64 step gradation), Error diffusion (64 step gradation), Grayscale (8 bit), Color (24 bit)	
	Image control		Image emphasis, Dynamic threshold, Automatic separation, Multi-Color dropout, Mirror image, Noise reduction	
	Other functions		Patch code detection (Kodak patch 2,3,T, Control sheet), Double feed detection	
	Paper	Size	48×70 mm (1.9×2.8 in.) to 297×431 mm (11.7×17 in.)	48×70 mm (1.9×2.8 in.) to 297×431 mm (11.7×17 in.)
		Thickness	0.05 to 0.2 mm (2.0 to 7.9 mils) **Note: 1 mil = 1/1000 in.**	
		Weight	40 to 157 g/m^2 (10.7 to 41.9 lb.) **Note: 1 lb. = 3.75 g/m^2**	
		Detection	Empty, Size, Jam, and Double-feed detection	
	Interface		SCSI Ⅲ (20 MB/s, 50 pins half type) or USB 2.0 (Connector type: B)	
	Hopper capacity		Letter/A4 or less (Portrait): 300 sheets [64 g/m^2 (17.1 lb.)]	
			Wider than Letter/A4 (Portrait): 200 sheets [64 g/m^2 (17.1 lb.)]	
Unit	External dimensions (Width × Depth × Height)		495×575×288 mm (19.5×22.7×11.4 in.) **Note: When the ADF Door is open, height is 505 mm (19.9 in.).**	
	Weight		24 kg (53 lbs.)	
	Power requirement		AC100-120 V, 50/60 Hz [*3] AC220-240 V, 50/60 Hz [*4]	
	Power consumption	Maximum (Scanning)	1.4 A [*3]	
			0.6 A [*4]	
		Minimum (Standby)	0.6 A [*3]	
			0.3 A [*4]	
		Sleep mode	8 W [*3]	
			8 W [*4]	
Environment	Operating temperature and Humidity		Temperature: 15 °C to 30 °C (59 °F to 86 °F) Humidity: 30 % to 80 % RH	
	Storage temperature and Humidity		Temperature: 0 °C to 35 °C (32 °F to 95 °F) Humidity: 10 % to 80 % RH	
Accessories			Installation manual, Maintenance manual, AC cord, USB cable, Blower, Cleaning paper, Shading paper, CD [ISIS Driver, TWAIN Driver, Capture software (RTIV), Operation manual, P.I.E. manual, RTIV manual, Control sheet images, User Utility, User Utility Manual]	
PbF (Pb Free)			Applied to PCB assemblies **CONTROL, INTERFACE, PANEL, DRIVE, POWER, SIZE DETECTOR, HOPPER HOME, RELAY (LOWER), SKEW (R), WAITING SENSOR, STARTING SENSOR, ENDING (FRONT) SENSOR, RELAY (UPPER), PAPER JAM SENSOR, ENDING (REAR) SENSOR, POINTER, POST IMPRINTER DOOR, POWER RELAY, CIS (F) RELAY, CIS (B) RELAY Boards** for KV-S3065CL Series and KV-S3065CW Series **Note: Distinction of PbF PCB** **PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.**	
Option			Roller Exchange Kit (standard): KV-SS017 Roller Exchange Kit (for thin paper): KV-SS018 Roller Cleaning Paper (KV-SS03) Imprinter (KV-SS014) Ink Cartridge (KV-SS021)	

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Note:

[*1]: KV-S3065CL Series

KV-S3065CL: For U.S.A.

KV-S3065CL-U: For Europe

KV-S3065CL-A: For Australia

KV-S3065CL-T: For Taiwan

SERIAL No. shown on the name plate on each scanner will distinguish the destinations for each area as follows.

1. **SERIAL No. for U.S.A. → 802 xxxx xxxx**
2. **SERIAL No. for Europe → 803 xxxx xxxx**
3. **SERIAL No. for Australia → 804 xxxx xxxx**
4. **SERIAL No. for Taiwan → 805 xxxx xxxx**

(x: Don't care)

KV-S3065CLCN: For China

SERIAL No. for China → 806 xxxx xxxx

(x: Don't care)

[*2]: KV-S3065CW Series

KV-S3065CW: For U.S.A.

KV-S3065CW-U: For Europe

KV-S3065CW-A: For Australia

KV-S3065CW-T: For Taiwan

SERIAL No. shown on the name plate on each scanner will distinguish the destinations for each area as follows.

1. **SERIAL No. for U.S.A. → 747 xxxx xxxx**
2. **SERIAL No. for Europe → 797 xxxx xxxx**
3. **SERIAL No. for Australia → 798 xxxx xxxx**
4. **SERIAL No. for Taiwan → 799 xxxx xxxx**

(x: Don't care)

KV-S3065CWCN: For China

SERIAL No. for China → 800 xxxx xxxx

(x: Don't care)

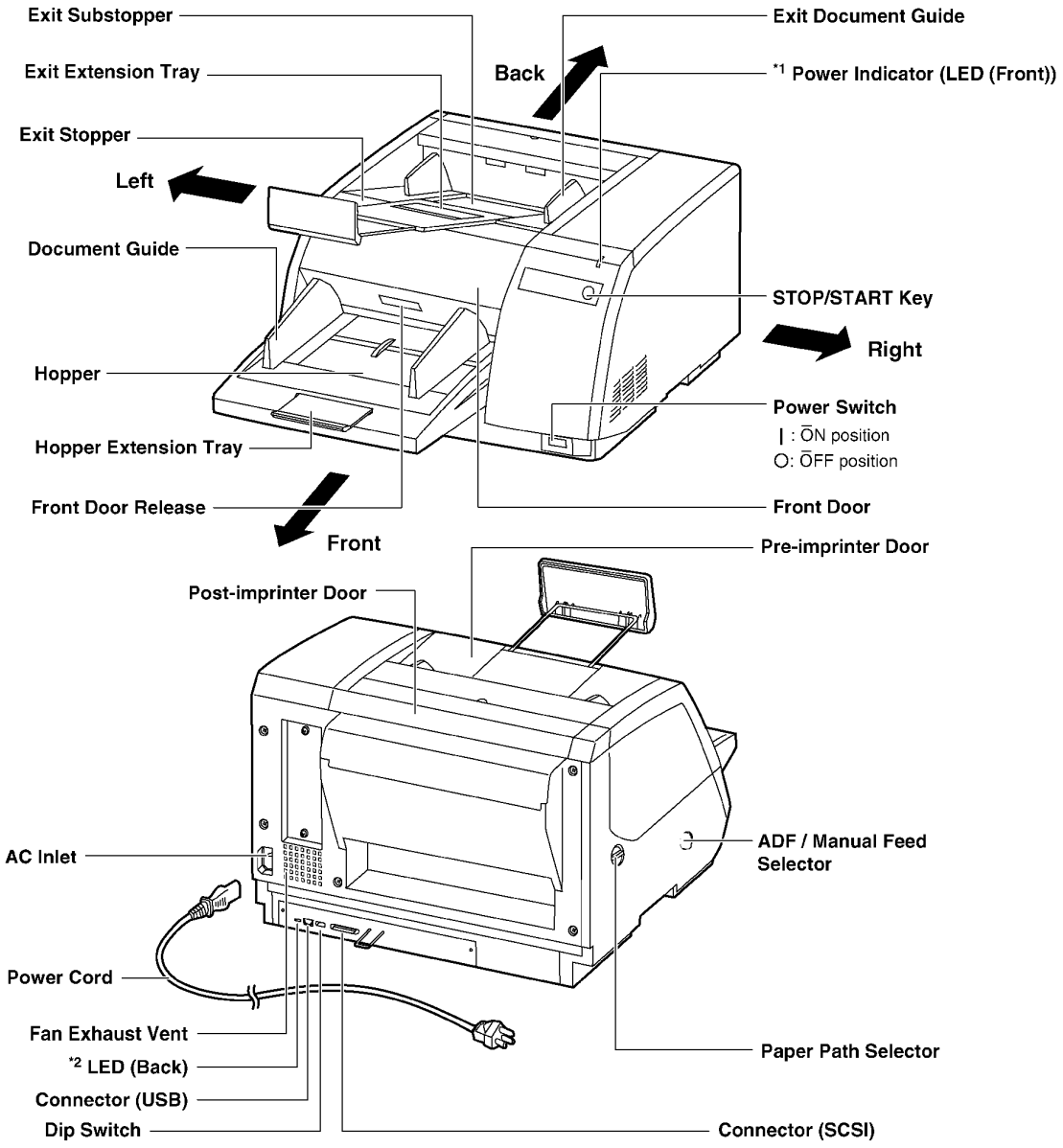
[*3]: Applied to KV-S3065CL/S3065CW (For U.S.A. and other countries where power supply (AC100 to AC120 V) is applied except for Taiwan) and KV-S3065CL-T/S3065CW-T

[*4]: Applied to KV-S3065CL-U/S3065CW-U (For Europe and other countries where power supply (AC220 to AC240 V) is applied except for Australia and China), KV-S3065CL-A/S3065CW-A, and KV-S3065CLCN/S3065CWCN

[*5]: MultiStream is TM of Pixel Translations (a division of Action point Inc.)

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3 COMPONENT IDENTIFICATION



Note:

[*1]: Indicator Status: Refer to Fig.3.1.

[*2]: Only used for self-test (Service Mode): Refer to 9.4.

Fig.3.1 Power Indicator for showing scanner status

Color	ON	Flashing
Green	1. Ready 2. Scanning	Sleeping
Orange	*1. Ready with warning *2. Scanning with warning	1. Initializing *2. Sleeping with warning 3. Shading
Red	An error	System error

Note:

*** Warning: Clean roller or replace roller**

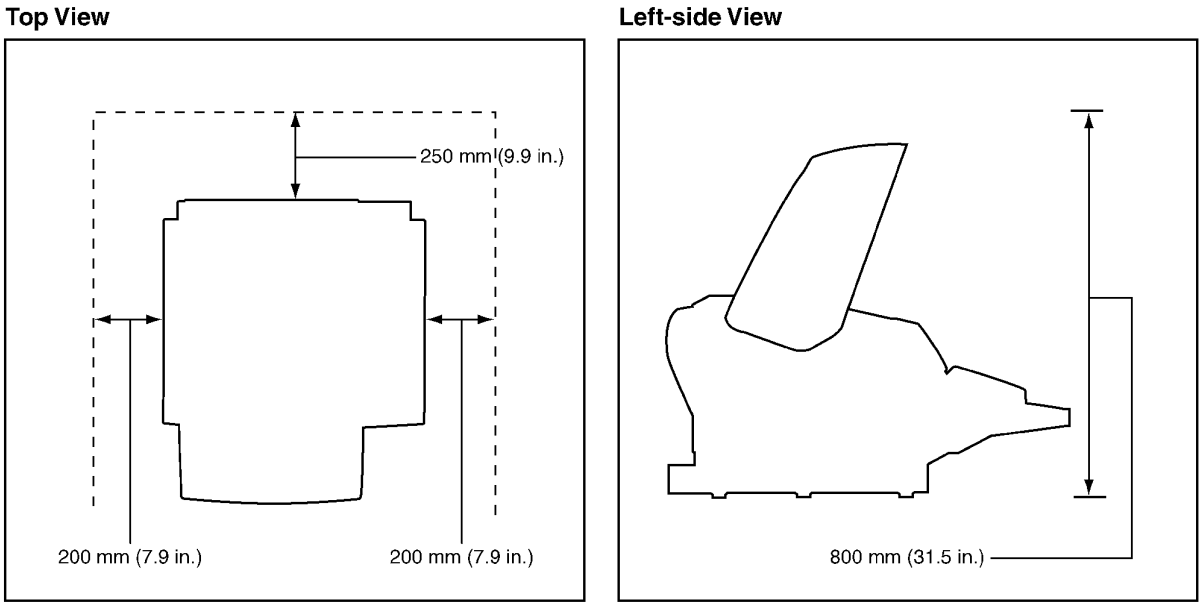
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4 INSTALLATION

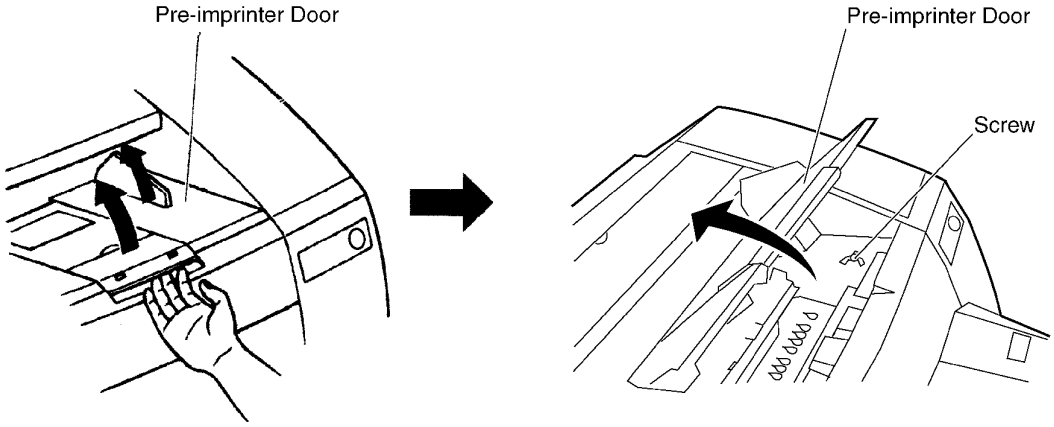
4.1. Minimum Space Requirements

Be sure to maintain the recommended space requirements for proper ventilation.

Fig.4.1.1 Dimensions for proper ventilation



4.2. Loosening the Transportation Screw (Wing bolt)



Before using the scanner, open the Pre-imprinter Door and loosen the Transportation Screw (Wing bolt) to enable the Front Door to open.

Note:

When transporting the scanner again, be sure to tighten the screw.

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4.3. DIMM Module Extension

A maximum of 512 MB extended memory may be required depending on the combination of the paper size, mode, and resolution. To determine how much extended memory is required on each condition, refer to Fig.4.3.1 and Fig.4.3.2.

Note:

Under any scanning conditions shown in the Fig.4.3.1 and Fig.4.3.2, image scanning with no additional memory will be done by using START/STOP operation except for "Compatible Mode" on 9.3.5 although scanning speed goes down.

(Recommended DIMM)

- JEDEC-standard 168 pin, dual in-line memory module (DIMM)
- Single +3.3 V±0.3 V power supply
- Frequency / CAS Latency: 100 MHz/CL=2, 133 MHz/CL=2, 133 MHz/CL=3
- 64 MB, 128 MB, 256 MB, or 512 MB may be used.

Note:

Originally, INTERFACE Board has 64 MB memory as the basis.

Fig.4.3.1 Additional memory size-1 (Simplex)

(Unit: MB)

***1: 227×2,540 (9.0×100 in.) for KV-S3065CL Series**

***2: 302×2,540 (11.9×100 in.) for KV-S3065CW Series**

Mode	Size	dpi					
		100	200	300	400	500	600
Binary	*1 SC's Max (1)	0	0	0	0	0	0
	*2 SC's Max (2)	0	0	0	0	0	0
	Double Letter	0	0	0	0	0	0
	Legal	0	0	0	0	0	0
	Letter	0	0	0	0	0	0
	A3	0	0	0	0	0	0
	A4	0	0	0	0	0	0
	A5	0	0	0	0	0	0
	A6	0	0	0	0	0	0
	B4	0	0	0	0	0	0
	B5	0	0	0	0	0	0
	B6	0	0	0	0	0	0
8 bit Gray	*1 SC's Max (1)	0	0	64	128	256	512
	*2 SC's Max (2)	0	0	64	256	256	512
	Double Letter	0	0	0	0	0	64
	Legal	0	0	0	0	0	0
	Letter	0	0	0	0	0	0
	A3	0	0	0	0	0	64
	A4	0	0	0	0	0	0
	A5	0	0	0	0	0	0
	A6	0	0	0	0	0	0
	B4	0	0	0	0	0	0
	B5	0	0	0	0	0	0
	B6	0	0	0	0	0	0
24 bit Color	*1 SC's Max (1)	0	64	256	512	-	-
	*2 SC's Max (2)	0	128	512	-	-	-
	Double Letter	0	0	0	64	128	256
	Legal	0	0	0	64	64	128
	Letter	0	0	0	0	64	128
	A3	0	0	0	64	128	256
	A4	0	0	0	0	64	128
	A5	0	0	0	0	0	64
	A6	0	0	0	0	0	0
	B4	0	0	0	64	128	128
	B5	0	0	0	0	64	64
	B6	0	0	0	0	0	0

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Fig.4.3.2 Additional memory size-2 (Duplex)

(Unit: MB)

[*1]: 227×2,540 (9.0× 100 in.) for KV-S3065CL Series

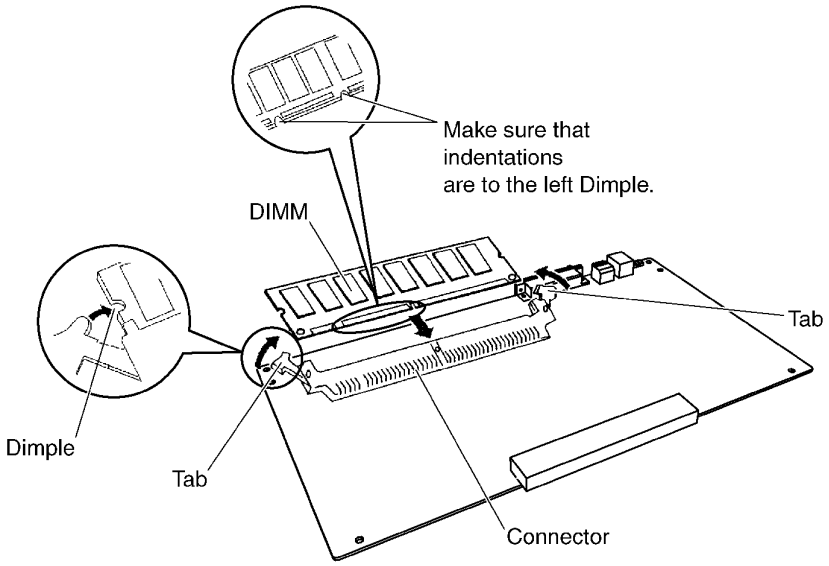
[*2]: 302×2,540 (11.9×100 in.) for KV-S3065CW Series

Mode	Size	dpi					
		100	200	300	400	500	600
Binary	[*1] SC's Max (1)	0	0	0	0	0	64
	[*2] SC's Max (2)	0	0	0	0	64	64
	Double Letter	0	0	0	0	0	0
	Legal	0	0	0	0	0	0
	Letter	0	0	0	0	0	0
	A3	0	0	0	0	0	0
	A4	0	0	0	0	0	0
	A5	0	0	0	0	0	0
	A6	0	0	0	0	0	0
	B4	0	0	0	0	0	0
	B5	0	0	0	0	0	0
	B6	0	0	0	0	0	0
8 bit Gray	[*1] SC's Max (1)	0	64	128	256	512	-
	[*2] SC's Max (2)	0	64	256	512	-	-
	Double Letter	0	0	0	64	64	128
	Legal	0	0	0	0	64	64
	Letter	0	0	0	0	0	64
	A3	0	0	0	64	64	128
	A4	0	0	0	0	0	64
	A5	0	0	0	0	0	0
	A6	0	0	0	0	0	0
	B4	0	0	0	0	64	64
	B5	0	0	0	0	0	64
	B6	0	0	0	0	0	0
24 bit Color	[*1] SC's Max (1)	64	256	512	-	-	-
	[*2] SC's Max (2)	64	256	-	-	-	-
	Double Letter	0	0	64	256	512	512
	Legal	0	0	64	128	256	256
	Letter	0	0	64	64	128	256
	A3	0	0	64	256	512	512
	A4	0	0	64	64	128	256
	A5	0	0	0	64	64	128
	A6	0	0	0	0	0	64
	B4	0	0	64	128	256	512
	B5	0	0	0	64	128	256
	B6	0	0	0	0	64	64

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4.4. Installing DIMM Module

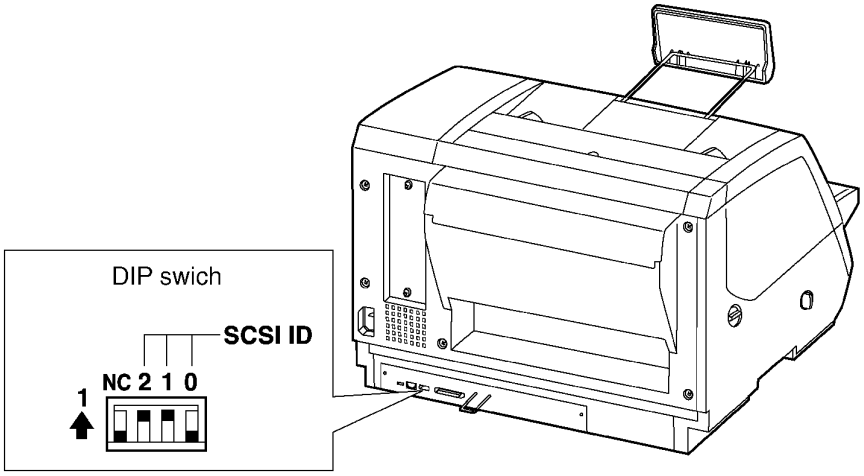
1. Remove INTERFACE Board. (See 8.4.1.)
2. Insert the DIMM Module into connector (CN2007) on the INTERFACE Board, and raise the tabs at both ends of the connector until they lock into place.



4.5. Setting

4.5.1. SCSI

When connecting this scanner to PC via SCSI interface, perform the SCSI ID setting as follows.



SCSI ID Setting

ID No.	Switch			Remarks
	#2	#1	#0	
0	0	0	0	
1	0	0	1	
2	0	1	0	
3	0	1	1	
4	1	0	0	
5	1	0	1	
6	1	1	0	Factory Default
7	1	1	1	

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4.6. Connecting the Scanner to a Personal Computer

Connect either USB or SCSI interface cable per scanner.

Note: Windows NT supports only SCSI interface.

4.6.1. SCSI Connection

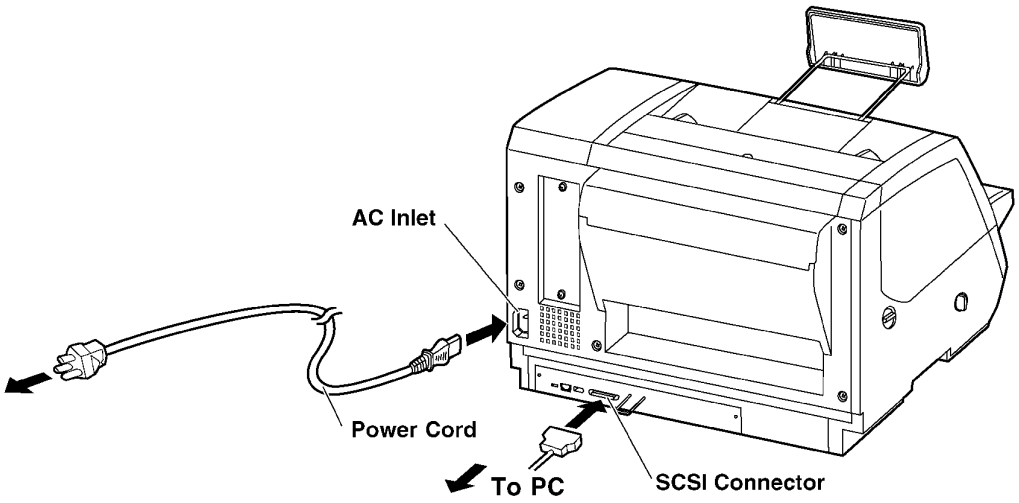


Fig.4.6.1

Note:

Power Cord shown on the Fig.4.6.1 is for AC100-120 V.

Caution:

1. **Use the scanner accessory's Power Cord.**
2. **Use SCSI cables as short as possible, securing SCSI specification.**
3. **After turning off the scanner and PC, remove SCSI cables.**

4.6.2. USB Connection

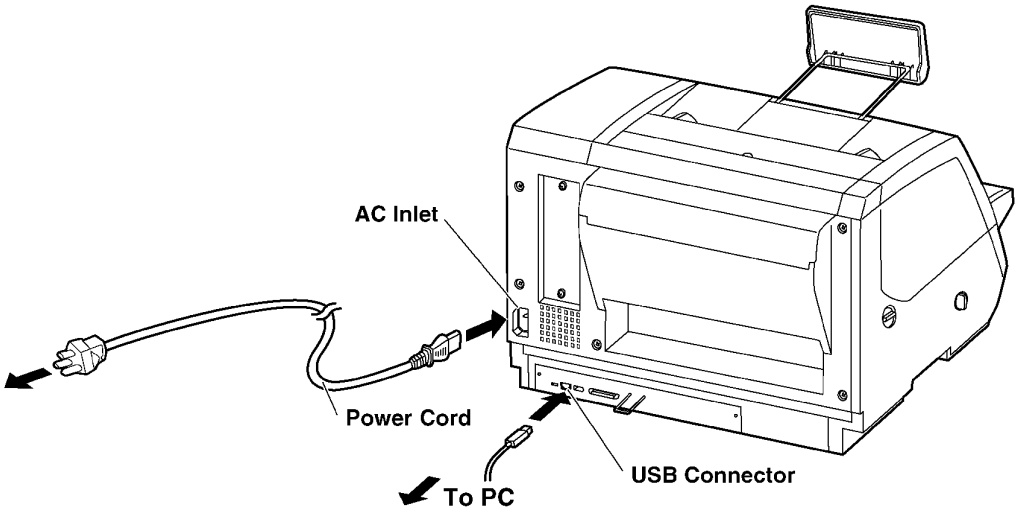


Fig.4.6.2

Note:

Power Cord shown on the Fig.4.6.2 is for AC100-120 V.

Caution:

1. **Use the scanner accessory's Power Cord.**
2. **Use the scanner's accessory USB cable or a USB interface cable that is certified as Hi-Speed logo by USB-IF.**

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4.7. System Requirements

When using the scanner, the required personal computer conditions are as follows.

		SCSI Connection	USB Connection
CPU		Minimum Pentium Ⅲ, 1 GHz Recommended: Pentium 4, 2 GHz or higher	
Memory		Minimum: 256 MB Recommended: 512 MB or more	
OS		Windows® 98 Windows NT® 4.0 Windows® 2000 Windows® Me Windows® XP	Windows® 98 Windows® 2000 Windows® Me Windows® XP
Display	**Resolution**	1,024×768 dots or more	
	Colors	65,536 colors or more	
Interface		SCSI Ⅲ Recommended SCSI Board: Adaptec SCSI Board (2930U/2940U/29160N/19160)	USB 2.0

Note 1:

1. **This system requires 1 GB free space of HDD in the personal computer at least.**
2. **A color scanning beyond the conditions of A3 Size and 600 dpi may not be executed, based on Windows® 98 or Windows® Me.**

 And even based on another OS, a high resolution scanning may not be done.
3. **The scanning speed differs depending on the personal computer's operating environment or application.**
4. **Be sure to connect the scanner directly to the USB interface port on PC.**
 We cannot guarantee that the scanner will work properly if it is connected to a USB hub.
5. **A daisy-chain connection to the SCSI interface may not allow the scanner to realize the high speed scanning.**
6. **When using Windows NT®, be sure to install the ASPI layer software that the SCSI Board's vendor provides.**

Note 2:

- **Windows® 98 is Microsoft® Windows® 98 operating system.**
- **Windows® Me is Microsoft® Windows® Me operating system.**
- **Windows NT® is Microsoft® Windows NT® operating system.**
- **Windows® 2000 is Microsoft® Windows® 2000 operating system.**
- **Windows® XP is Microsoft® Windows® XP operating system.**
- **Microsoft®, Windows® and Windows NT® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.**
- **Pentium® is a registered trademark of Intel Corporation.**
- **Each company's name or company product name is each company's trademark or registered trademark.**

4.8. Installing Driver and Software

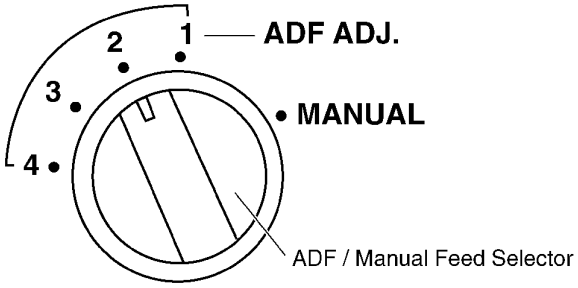
According to the Product accessory Installation Manual, install software with the Product accessory CD-ROM to enable the scanning function to be done.

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4.9. Others

4.9.1. Set ADF / Manual Feed Selector

Depending upon the paper quality, set the ADF / Manual Feed Selector.



The ADF / Manual Feed Selector is located on the left side of the scanner.

1. By setting the **ADF / Manual Feed Selector** to "**Manual**" position, the Retard Roller is separated from the Separation Roller. By this operation, multiple sheet will be scanned as a piece of document.
2. On the other hand, by setting the **ADF / Manual Feed Selector** to "**1, 2, 3, or 4**" position, the Retard Roller exerts a manipulation force onto the documents, and the documents are separated by this manipulation.

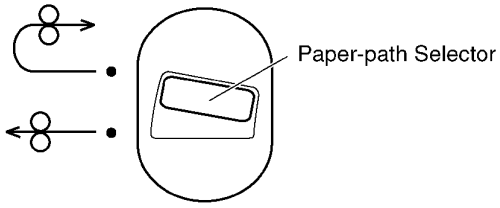
Note:

In proportion to the increment of the number (1→2→3→4) on the ADF / Manual Feed Selector, the contact force between the Retard and Separation Rollers goes up. (When scanning plain paper, set the selector to "2" or "3".)

4.9.2. Set Paper Path Selector

Change the Paper-path Selector position as required.

1. When making the document exit to the upper-front position
 → Push the Paper-path Selector upwards
2. When making the document exit to the lower-back position (Straight pass mode)
 → Push the Paper-path Selector downwards



The Paper-path Selector is located on the left side of the scanner.

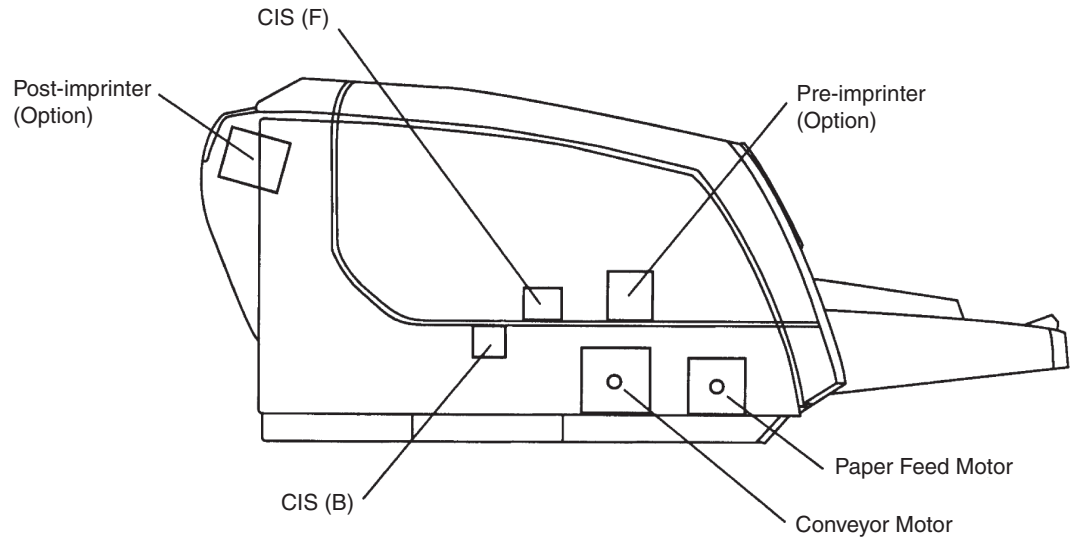
Note:

For the thicker paper scanning, we recommend the straight paper path.

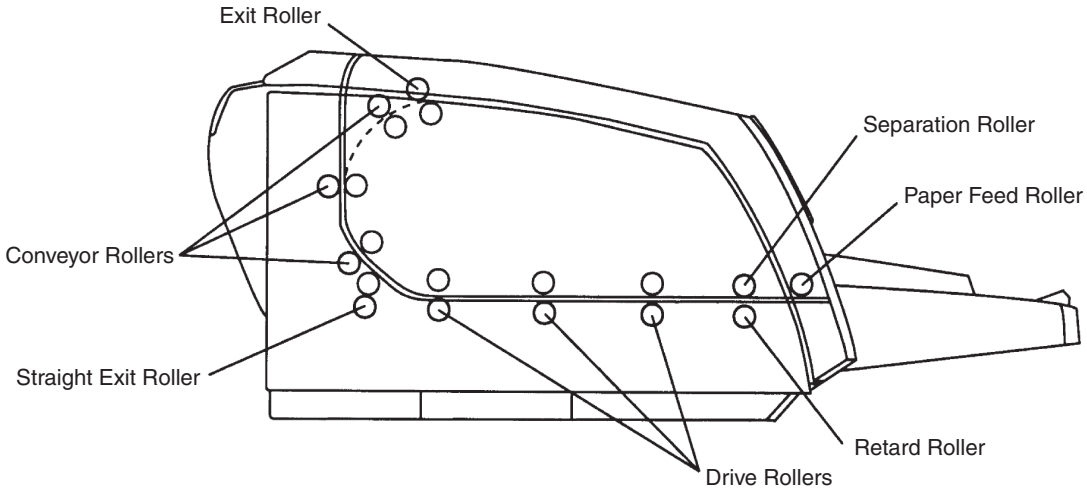
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5 SECTIONAL VIEWS

5.1. CIS, Motors, and Imprinters (Option)

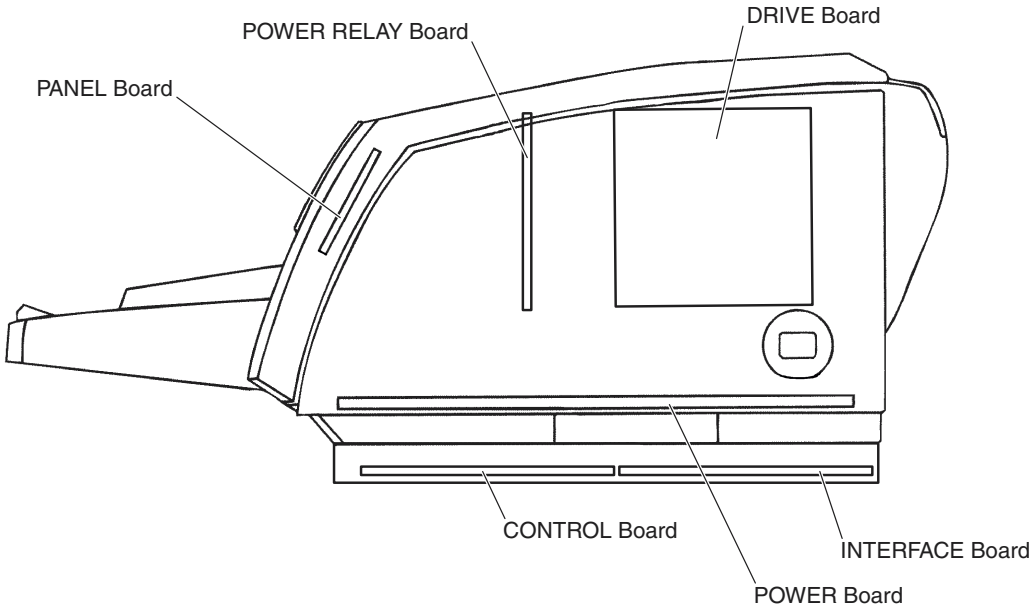


5.2. Rollers

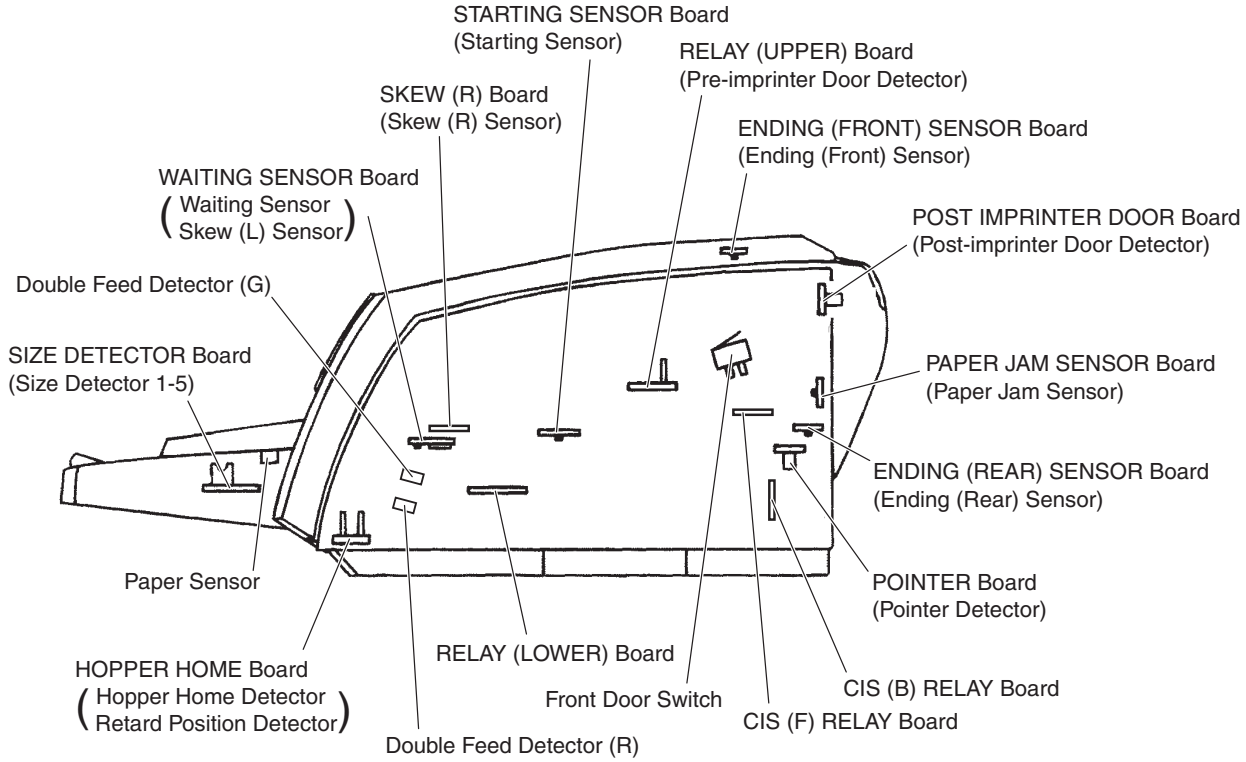


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5.3. Boards-1



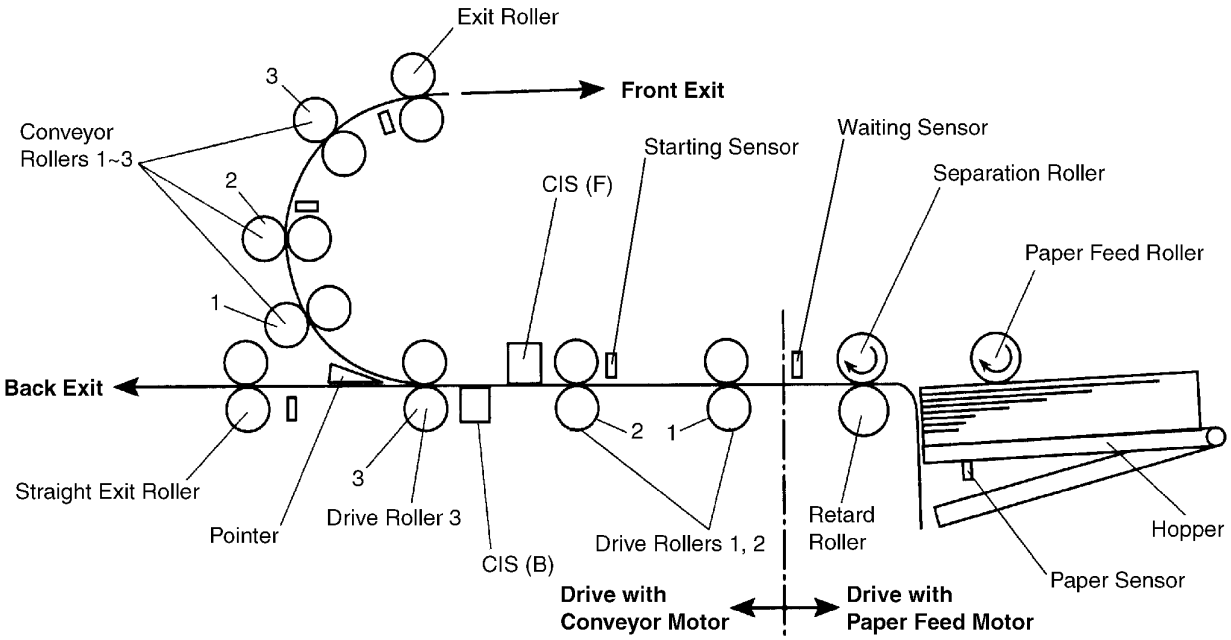
5.4. Boards-2



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6 MECHANICAL FUNCTION

6.1. Paper Feed Mechanism-1 (Auto)



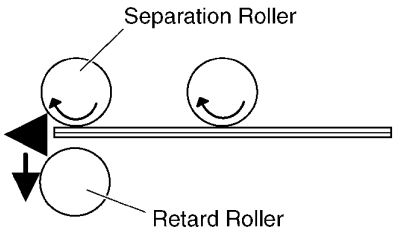
1. When documents are set on the Hopper, and the scanning command is issued from PC, the Hopper rises and the documents will be brought into contact with Paper Feed Roller.
2. The Conveyor Motor is driven to rotate the 3 Drive Rollers, 3 Conveyor Rollers, and Exit Roller.
3. When the Paper Feed Motor starts, the Paper Feed Roller and the Separation Roller turn in feed direction.
 The Retard Roller is supported by a shaft fixed via a torque limiter, and it is pushed against the Separation Roller. When the document enters into the separation section, the Retard Roller exerts a manipulation force onto the documents, which depends on the set torque. In case of continuous paper feed, the documents are separated by this manipulation force, and so only a document is fed to the scanning section.
4. When the leading edge of the document advances at about 5 mm from the Waiting Sensor after passing through the separation section and Waiting Sensor, the Paper Feed Motor stops and the Paper Feed Roller and the Separation Roller turn together.
5. When the leading edge of the document passes through the Starting Sensor, scanning the image starts after the defined period. (Time to be required to conveyor the document from the Starting Sensor to the scanning start point.)
6. When the heeling edge of the document come to the defined position from the Waiting Sensor, the Paper Feed Motor is driven again to feed the 2nd document.
7. Repeat the above 3 to 6.
8. After finishing all scanning process, Hopper goes down to the original position and the series of scanning sequence ends.

Note:

When the scanner's buffer becomes full of data, scanner will stop until securing the buffer free area that allows the scanner transfer the data to PC in order to prevent the buffer from overflowing.

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6.2. Paper Feed Mechanism-2 (Manual)



Manual Position

When the ADF / Manual Feed Selector is set to "**MANUAL**", the Retard Roller is free from the Separation Roller. In this case, the Retard Roller does not operate as the document separation.

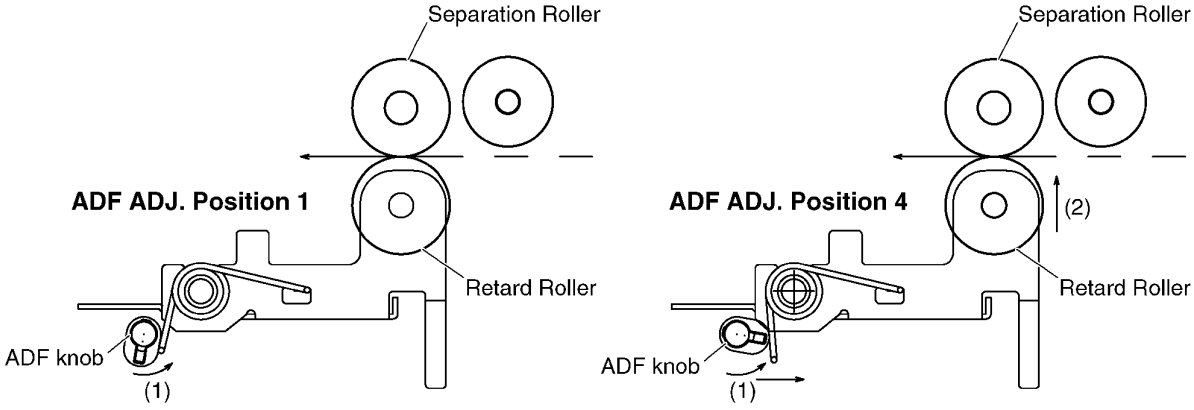
6.3. Paper Feed Mechanism-3 (ADF Adjustment)

This ADF Adjustment (**1,2,3, or 4 on ADF ADJ.**) will enable this scanner to realize the continuous scanning properly by forcing an appropriate pressure from the Retard Roller to Separation Roller according to the document quality.

The mechanism is as follows.

With the increasing of turning angle for ADF knob counterclockwise, the cam pressure to the spring in the direction of the arrow (1) grows to enable the Retard Roller to press the Separation Roller in the direction of the arrow (2).

This force and torque limiter the Retard Roller has originally will help the scanner feed only a single document.



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6.4. Paper Feed Roller / Hopper Lift Drive Mechanism

The rotation direction of the Paper Feed Motor differs the Paper Feed Roller mechanism from Hopper Lift Drive mechanism.

(a) The Gear Train (1) is a common drive system for the paper feed and hopper lift drive mechanisms.

(b) The Gear Train (2) is a drive system for the Paper Feed mechanism.

(c) The Gear Train (3) is a drive system for the Eccentric Gear in the Hopper Lift mechanism.

When the Paper Feed Motor rotates in the direction of the arrow (A), this rotation will activate the Gear Train (2) to drive the Paper Feed Roller.

At this time, in order to prevent the rotation to be transmitted to the hopper lift block, the Gear marked with (*) in the Gear Train (3) have one way clutches.

On the other hand, when the Paper Feed Motor rotates in the direction of the arrow (B), this rotation will activate the Gear Train (3) to drive the hopper lift block.

At this time, in order to prevent the rotation to be transmitted to the paper feed block, the Gear marked with (*) in the Gear Train (2) have one way clutches.

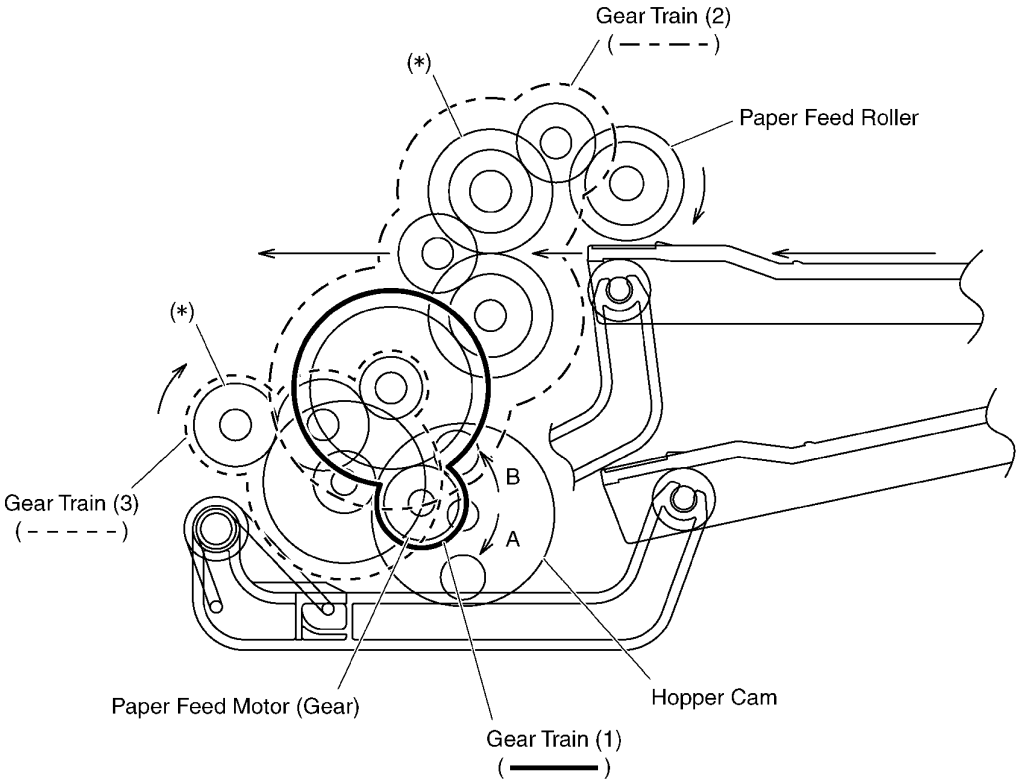


Fig.6.4

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6.5. Hopper Lift Mechanism

When the rotation from the above Gear Train (3) is transmitted to the Hopper Cam, the location of the eccentric boss on the Hopper Cam position will decide a hopper position (Paper Feed Mode or Paper Set Mode).

In case of Fig.6.5.1 driven by the Gear Train (3), the eccentric boss of Hopper Cam continues to turn in the direction of the arrow (C) and press the Hopper Arm in the direction of the arrow (D) against the force of the Hopper Spring to set the Hopper to be in Hopper Position 1 **(Hopper Set Mode)**.

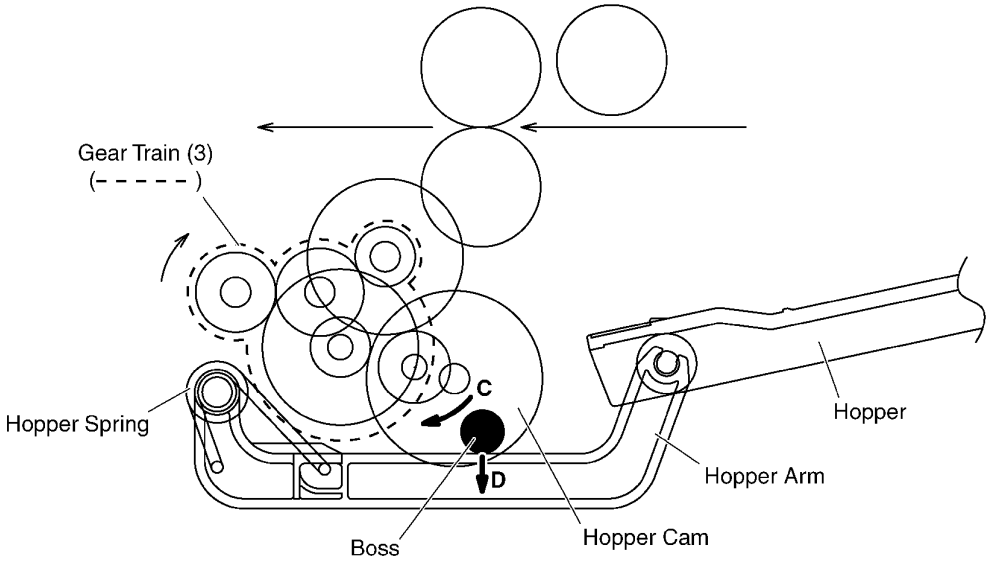


Fig.6.5.1 Hopper Position 1 (Paper Set Mode)

And when the eccentric boss of the cam further turns in the direction of the arrow (C) and the boss deviates from the Hopper Arm at the moment, the Hopper Spring extends in the direction of the arrow (E) to lift up the Hopper Arm in the direction of arrow (F), and to set the Hopper to be in Hopper Position 2 **(Paper Feed Mode)** as shown in Fig.6.5.2.

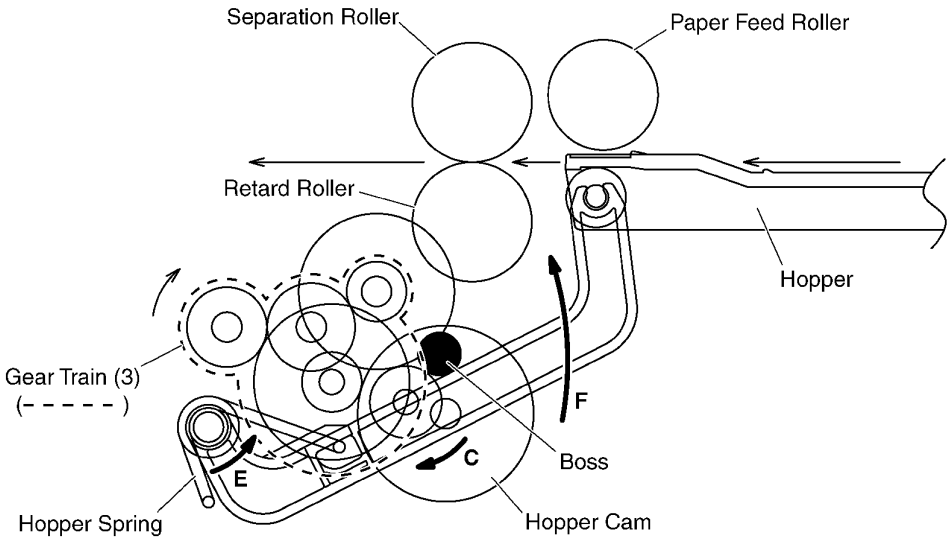


Fig.6.5.2 Hopper Position 2 (Paper Feed Mode)

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7 MAINTENANCE

7.1. Maintenance Chart

C: Clean R: Replace (×1000 sheets)

Description	Reference of Part No.	20	40	60	80~260	280	300
Paper Feed Roller	Ref. No.12 in Sec.14.5	C	C	C	Clean each part every 20 (×1000) sheets' scanning	C	R
Separation Roller	Ref. No.1 in Sec.14.5	C	C	C		C	R
Retard Roller	Ref. No.30 in Sec.14.3	C	C	C		C	R
Drive Roller 1	Ref. No.63 in Sec.14.3	C	C	C		C	C
Drive Roller 2	Ref. No.63 in Sec.14.3	C	C	C		C	C
Drive Roller 3	Ref. No.63 in Sec.14.3	C	C	C		C	C
Conveyor Roller 1	Ref. No.64 in Sec.14.3	C	C	C		C	C
Conveyor Roller 2	Ref. No.64 in Sec.14.3	C	C	C		C	C
Conveyor Roller 3	Ref. No.64 in Sec.14.3	C	C	C		C	C
Exit Roller	Ref. No.31 in Sec.14.5	C	C	C		C	C
Straight Exit Roller	Ref. No.64 in Sec.14.3	C	C	C		C	C
Free Rollers 1	Ref. No.96 in Sec.14.5	C	C	C		C	C
Free Rollers 2	Ref. No.41 in Sec.14.4 Ref. No.41, 109 in Sec.14.5	C	C	C		C	C
Image Sensor Cover (F)	Ref. No.98 in Sec.14.5	C	C	C		C	C
Image Sensor Cover (B)	Ref. No.24 in Sec.14.4	C	C	C		C	C
Paper Sensor	Ref. No.40 in Sec.14.1	C	C	C		C	C
Waiting Sensor (Board)	Ref. No.90 in Sec.14.5	C	C	C		C	C
Skew (L) Sensor (on the WAITING SENSOR Board)	Ref. No.90 in Sec.14.5	C	C	C		C	C
Skew (R) Sensor (Board)	Ref. No.89 in Sec.14.5	C	C	C		C	C
Starting Sensor (Board)	Ref. No.51 in Sec.14.5	C	C	C		C	C
Paper Jam Sensor (Board)	Ref. No.28 in Sec.14.4	C	C	C		C	C
Ending (Front) Sensor (Board)	Ref. No.24 in Sec.14.5	C	C	C		C	C
Ending (Rear) Sensor (Board)	Ref. No.31 in Sec.14.4	C	C	C		C	C
Double Feed Detector (G)	Ref. No.92 in Sec.14.5	C	C	C		C	C
Double Feed Detector (R)	Ref. No.3 in Sec.14.4	C	C	C		C	C
Reflector Sheets	Ref. No.87 in Sec.14.3 Ref. No.20 in Sec.14.4	C	C	C		C	C

⚠ Caution:

The Image Sensor Covers (F) and (B) or their surroundings may be hot after scanning a lot of documents continuously.

Be sure to allow the inside of the scanner to cool down before performing any maintenance or coming in contact with the inside of the unit.

Note 1:

The above roller maintenance values are registered in the maintenance counter (Refer to Section 9), and the PC will inform users the cleaning or replacing timing if the utility software in this scanner has been already installed and started up.

Note 2:

The maintenance schedule was determined according to paper standards (A4 or Letter, 16 lb. copier paper), which can vary greatly between users. Therefore, the values can also vary.

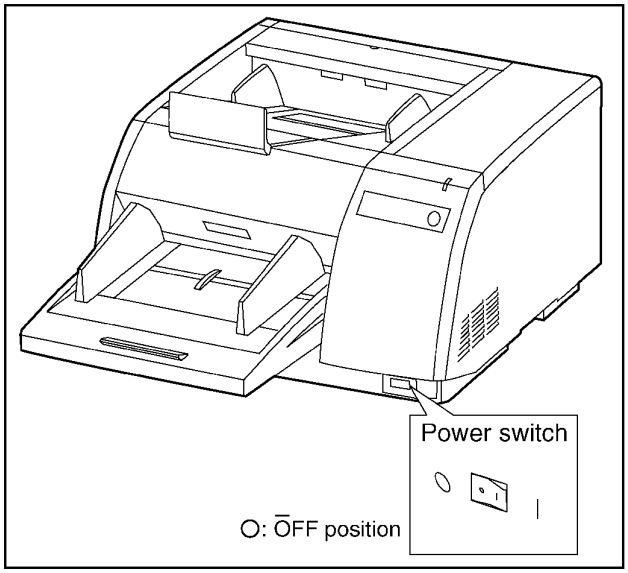
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7.2. Cleaning

7.2.1. Preparation

Before cleaning, the following procedures are required.

(1) Turn off the scanner.



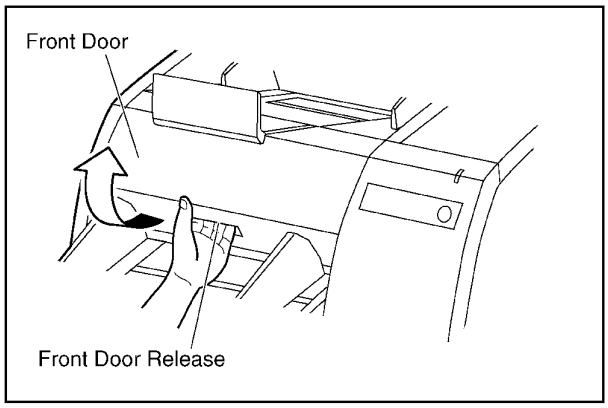
(2) Pull the **Front Door Release** to open the Front Door.

Note:

a. **When Front Door does not open even if Front Door Release is pressed repeatedly, there is possibility that the door is not latched.**

In this case, try to close the Front Door until it clicks into place.

b. **After finishing this maintenance, close the Front Door slowly until it clicks into place.**



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7.2.2. Cleaning-1 (Main)

According to the instructions in following figures Fig.7.2.2-1 and Fig.7.2.2-2, wipe off or blow off the dirt from each surface of the following parts so as to realize a high-performance on the scanning condition.

(Fig.7.2.2-1): Cleaning Parts and Action

Maintenance Parts		*1 Action Code	Action	Comments
Paper Feed Roller		C	Clean each surface with the accessory Roller Cleaning Paper or Model KV-SS03 (Option: Roller Cleaning Paper) to wipe off the dirt around its surface. 1. **How to deal with the Roller Cleaning Paper and others.** → **See Note *2.** 2. **Cleaning position** → **See Fig.7.2.2-2.**	After cleaning the Paper Feed, Separation, and Retard Rollers, execute "**Clear Counter**" for cleaning roller with Service Utility. (See 9.3.)
Separation Roller		C		
Retard Roller		C		
Drive Roller 1		C		
Drive Roller 2		C		
Drive Roller 3		C		
Conveyor Roller 1		C		
Conveyor Roller 2		C		
Conveyor Roller 3		C		
Free Rollers		C		
Image Sensor Cover	(F)	C		
	(B)	C		
Paper Sensor		B	Blow off the dirt on each surface with the accessory Blower. 1. **How to use the Blower** → **See Note *3.** 2. **Cleaning position** → **See Fig.7.2.2-2.**	
Waiting Sensor (Board)		B		
Skew (L) Sensor (on the WAITING SENSOR Board)		B		
Skew (R) Sensor (Board)		B		
Starting Sensor (Board)		B		
Paper Jam Sensor (Board)		B		
Double Feed Detector (G)		B		
Double Feed Detector (R)		B		
Reflector Sheets		B		

Note: *1

Action Code shows cleaning method as follows.

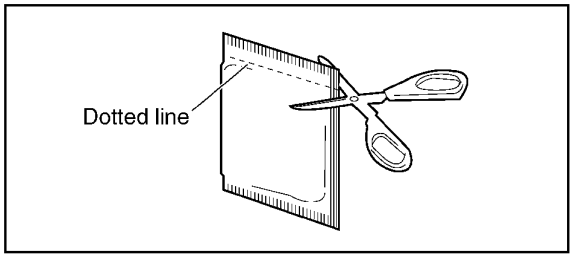
C: Clean each surface with the accessory Roller Cleaning Paper or Model KV-SS03 (Option: Roller Cleaning Paper)

B: Blow off each surface with the accessory Blower.

Note: *2

Roller Cleaning Paper

· Open the bag by the dotted line and take out the Roller Cleaning Paper.



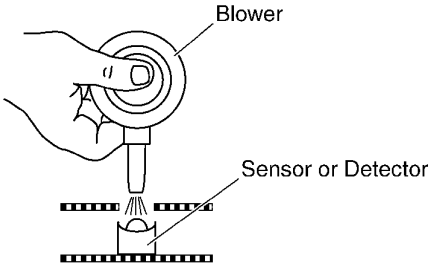
· If the opened bag is left open for a long period of time before using it, the alcohol will evaporate. Use the Roller Cleaning Paper immediately after opening the bag.

· The Roller Cleaning Paper (Model No. KV-SS03) is available via sales route.

Note: *3

How to clean sensor (detectors) and reflectors.

Remove the brush from the accessory Blower and blow off the dirt with the blower.



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(Fig.7.2.2-2) Cleaning Position

⚠ **Caution:**

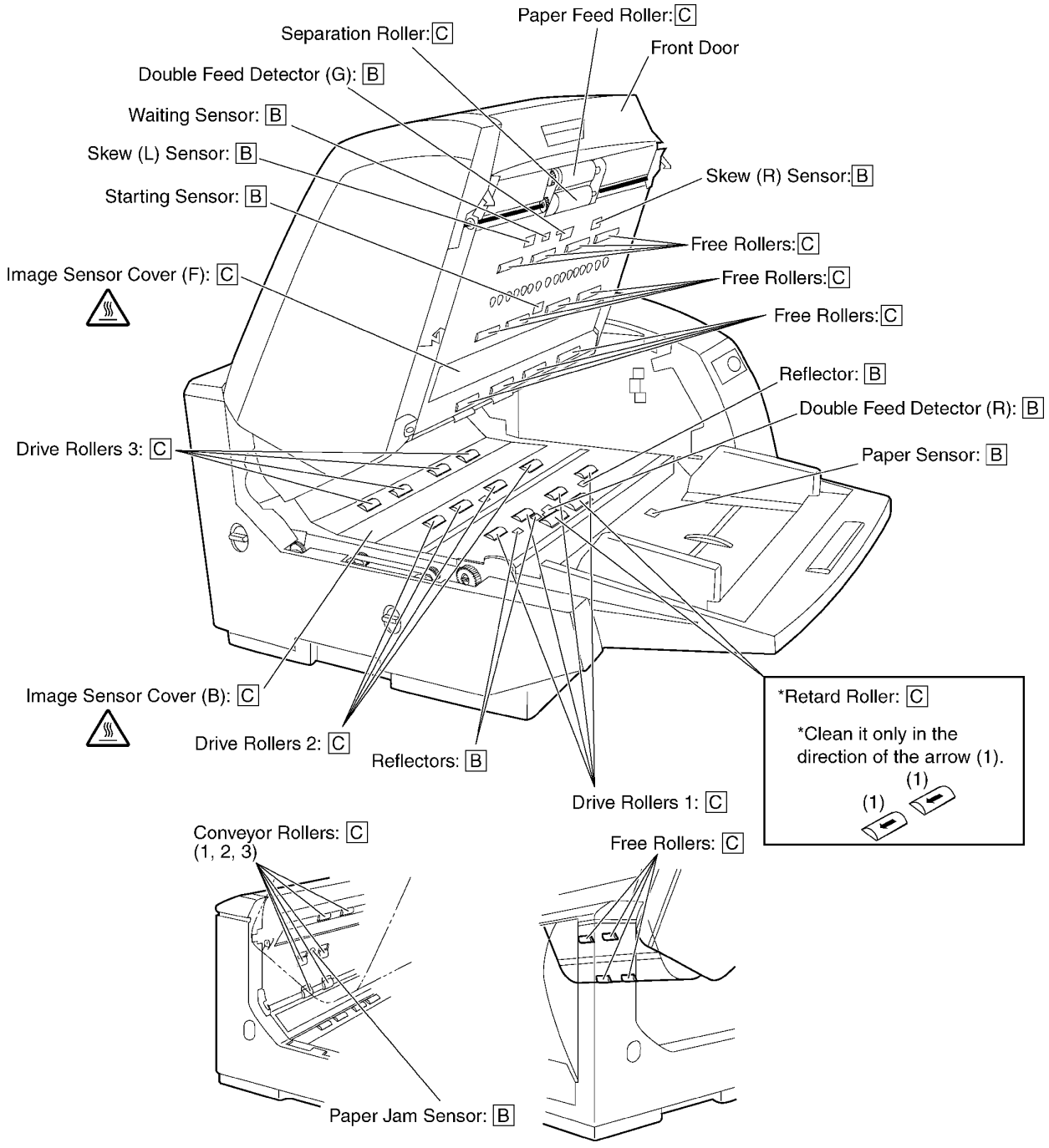
The Image Sensor Covers (F) and (B) or their surroundings may be hot after scanning a lot of documents continuously.

Be sure to allow the inside of the scanner to cool down before performing any maintenance or coming in contact with the inside of the unit.

Action

C: Clean each surface with the accessory Roller Cleaning Paper or Model KV-SS03 (Option: Roller Cleaning Paper).

B: Blow off the dirt on each surface with the accessory Blower.



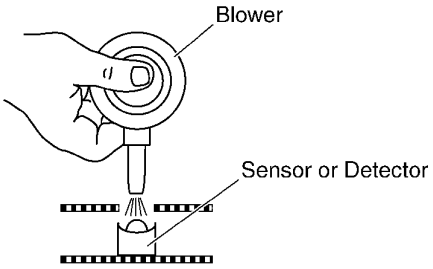
Left side view

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7.2.3. Cleaning-2 (Others)

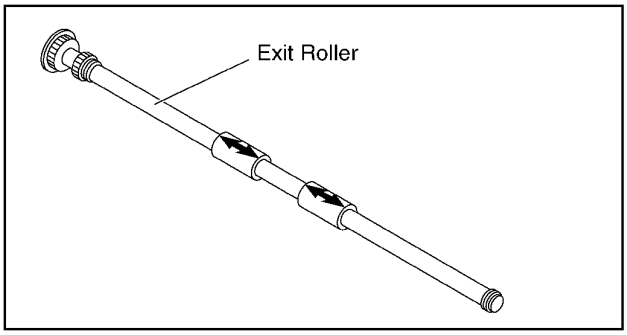
How to clean sensors (detectors) and reflectors.

Remove the brush from the accessory Blower and blow off the dirt with the blower.



(1) Remove the Exit Roller. (See 8.3.17.)

(2) Wipe off the dirt on the Exit Roller's surfaces all the way around them with the accessory Roller Cleaning Paper or Model KV-SS03.



(3) Remove the ENDING (FRONT) SENSOR Board. (See 8.4.4.)

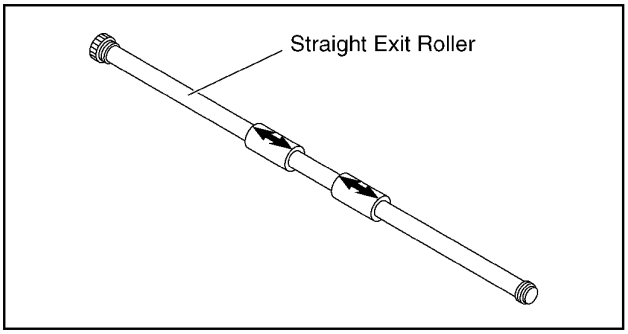
(4) Blow off the dirt on the surface of the Ending (Front) Sensor with an accessory blower.

(5) Remove the Straight Exit Roller. (See 8.3.14.)

(6) Wipe off the dirt on the Straight Exit Roller's surfaces all the way around them with the accessory Roller Cleaning Paper or Model KV-SS03.

(7) Remove the ENDING (REAR) SENSOR Board. (See 8.4.17.)

(8) Blow off the dirt on the surface of the Ending (Rear) Sensor with an accessory blower.



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7.3. Replacing Limited Life Parts

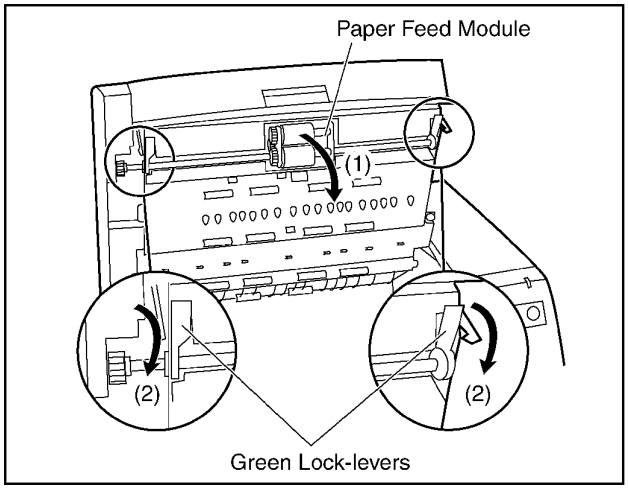
7.3.1. Replacing Paper Feed Module

(1) Turn off the scanner. (See 7.2.1-(1).)

(2) Pull the **Front Door Release** to open the Front Door. (See 7.2.1-(2).)

(3) Pull down the Paper Feed Module in the direction of the arrow (1), hanging your finger on the center shaft of the module.

(4) Push down the Green Lock- levers on both sides in the direction of the arrow (2) to release and remove the Paper Feed Module from the scanner.



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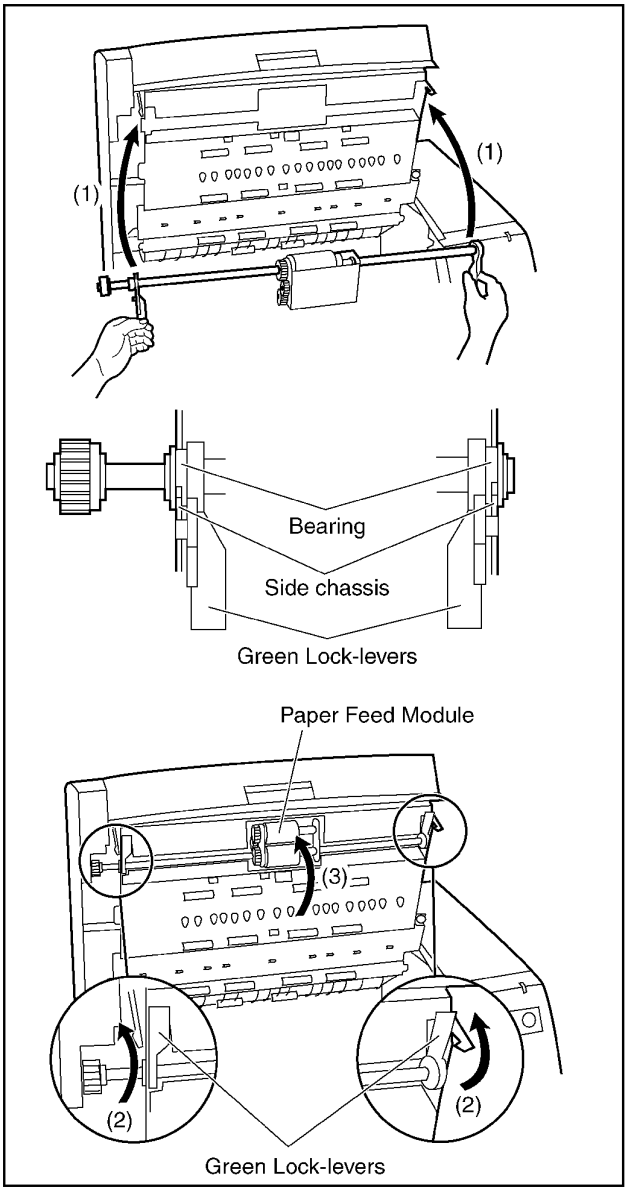
(5) Open the optional Roller Exchange Kit (KV-SS017 or KV-SS018), and take out a new Paper Feed Roller Module.

(6) Install the new Paper Feed Roller Module into the guide grooves of both sides in the direction of the arrows (1).

Note:

Be sure to match both bearings of the module with the guide grooves on both sides of the chassis.

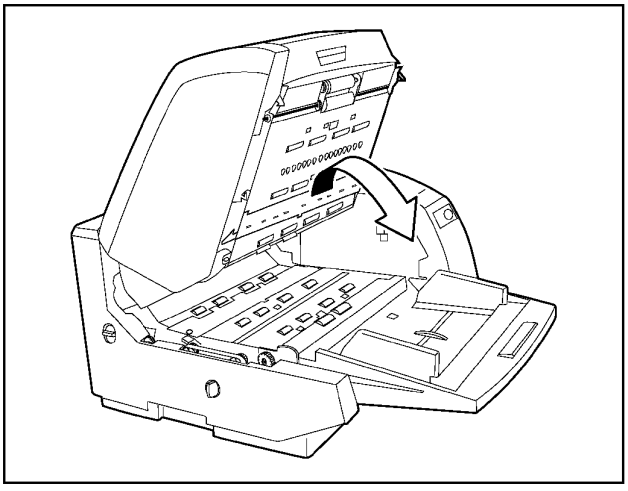
(7) Push up the Green Lock-levers and Paper Feed Module in the direction of the arrows (2), (3) to lock it to the scanner.



(8) Close the Front Door slowly until it clicks into place.

Note:

After replacing the above Paper Feed Roller Module and the following section's (7.3.2) Retard Roller, execute "Clear Counter" for replacing roller, with Service Utility. (See 9.3.4.)



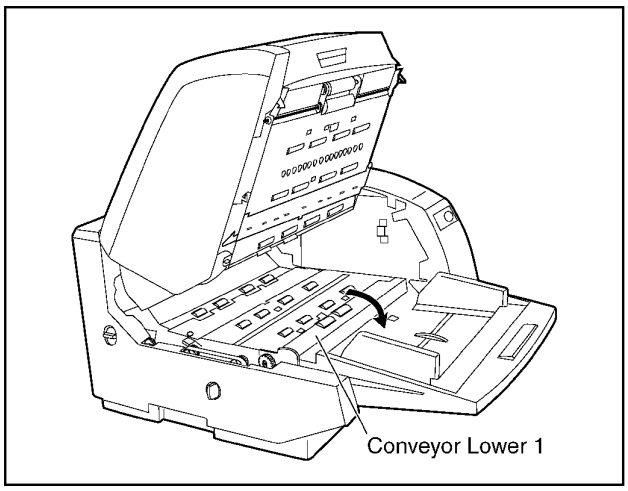
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7.3.2. Replacing Retard Roller

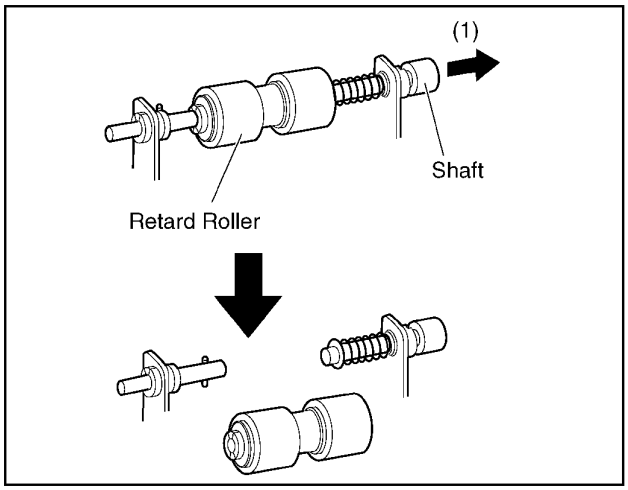
(1) Turn off the scanner. (See 7.2.1-(1).)

(2) Push the **Front Door Release** to open the Front Door. (See 7.2.1-(2).)

(3) Open the Conveyor Lower 1 in the direction of the arrow shown in the figure.



(4) Pull the Shaft in the direction of the arrow (1) to release and remove the Retard Roller.



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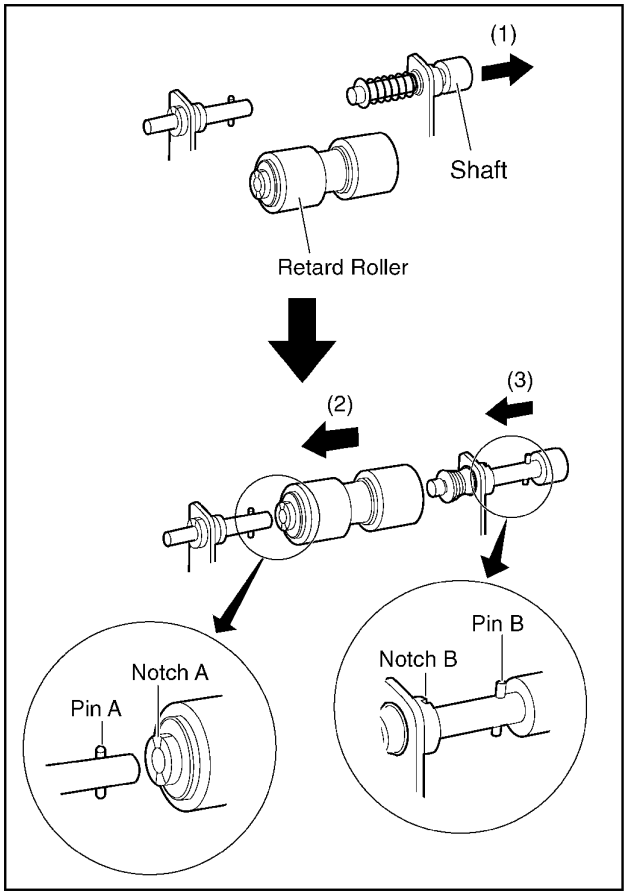
(5) Take out a new Retard Roller in the optional Roller Exchange Kit (KV-SS017 or KV-SS018).

(6) Install a new Retard Roller.

Attach it toward the arrows (2), (3) while pulling the Shaft in the direction of the arrow (1).

Note:

Pay attention to the roller attachment so that Pins A, B are inserted in each Notch A, B surely. Otherwise, a double-feeding or paper jamming may occur.

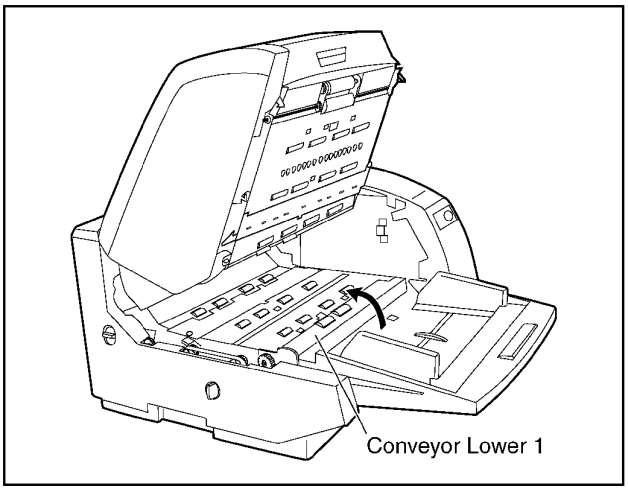


(7) Close the Conveyor Lower 1 in the direction of the arrow shown in the figure.

(8) Close the Front Door slowly until it clicks into place. (See 7.3.1-(8).)

Note:

After replacing the Paper Feed Roller Module and Retard Roller, execute "Clear Counter" for replacing roller with Service Utility. (See 9.3.4.)



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8 DISASSEMBLY INSTRUCTIONS

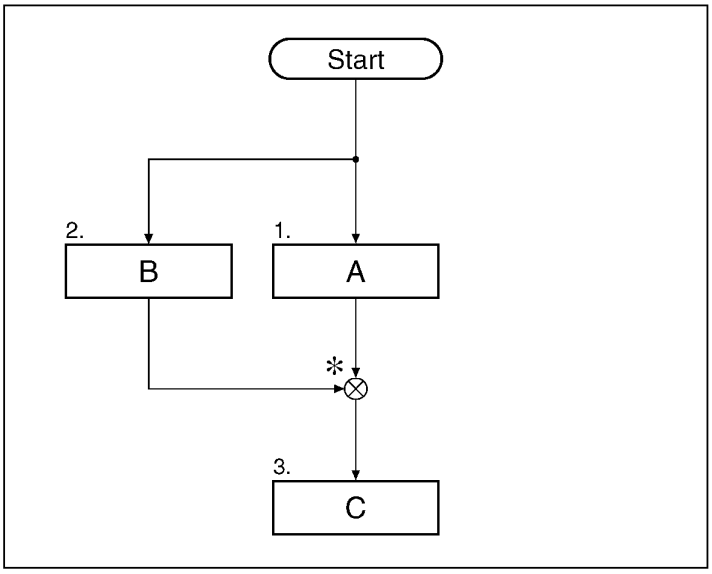
8.1. Disassembly Flowchart

The flowchart indicates disassembly items of the Exterior, Mechanical parts, Unit Components, Circuit Board assemblies.

When reassembling, perform the steps in the reverse order unless noted in Reassembling Notes.

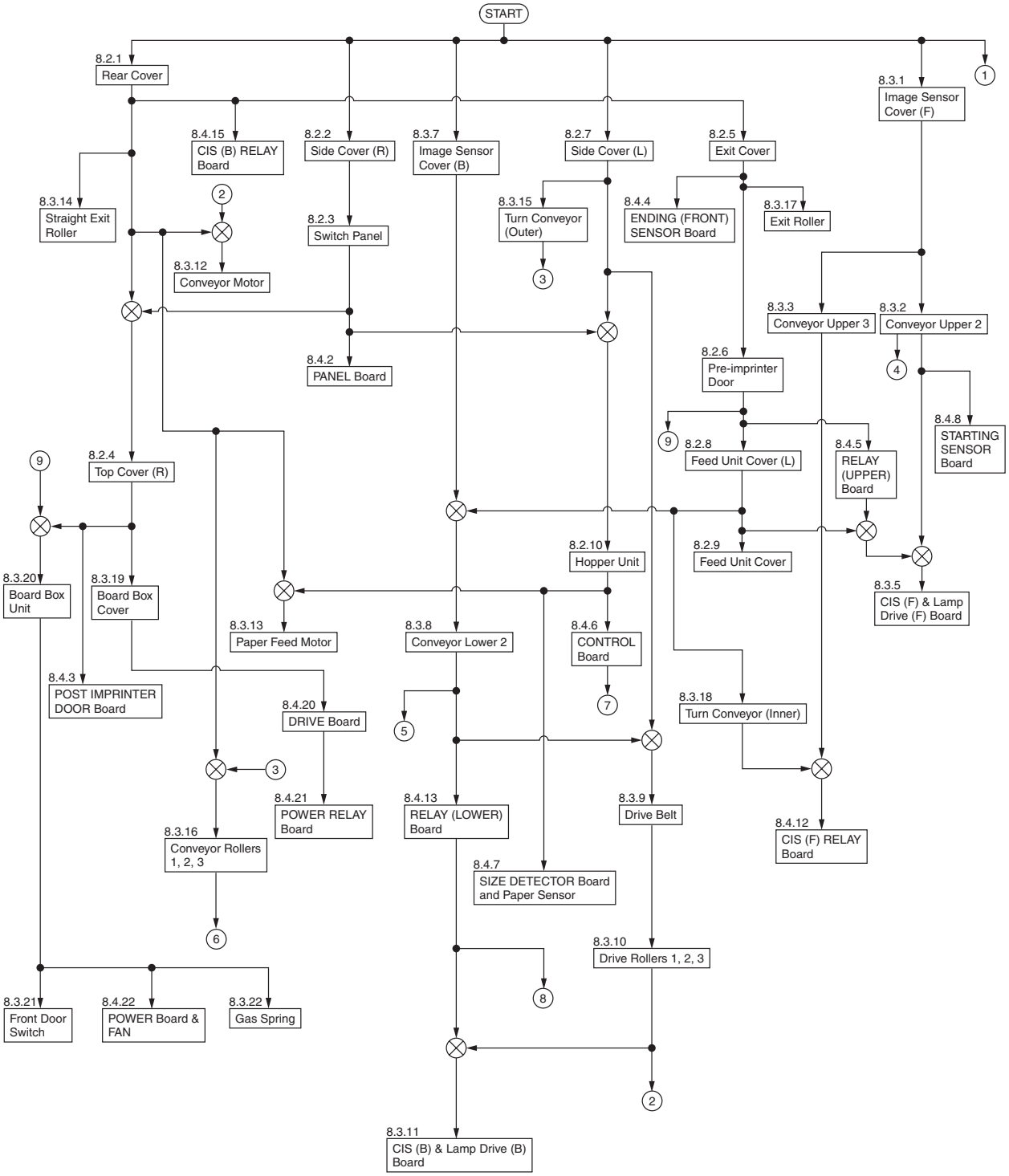
Note:

How to check the disassembly flowchart

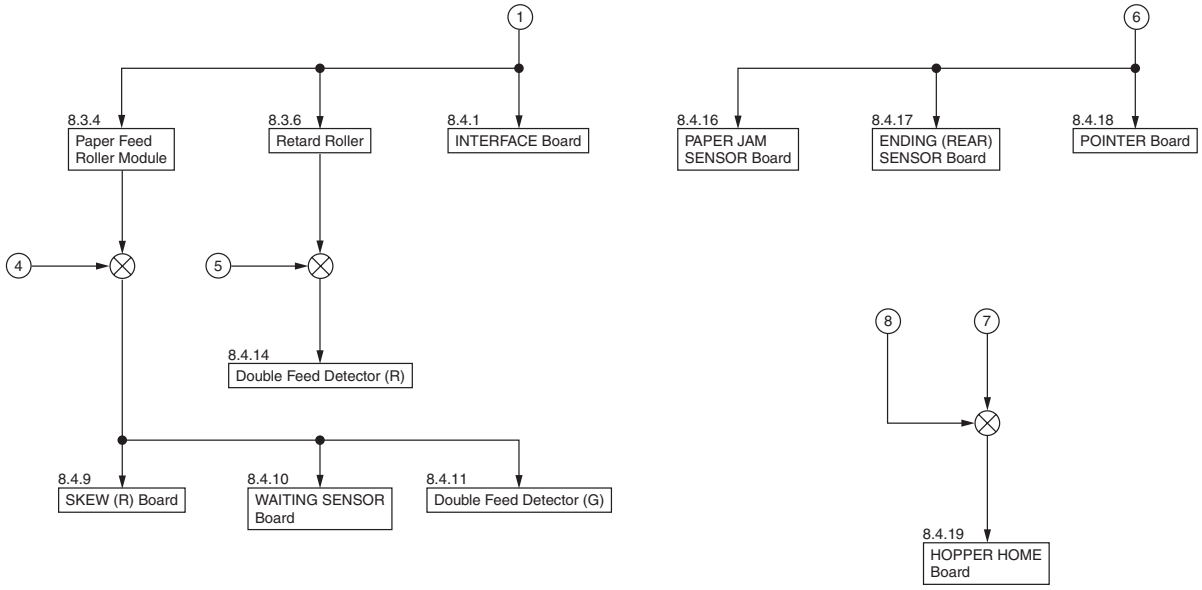


*** This sample flowchart means the procedures 1 and 2 are required before the procedure 3, when disassembling C.**

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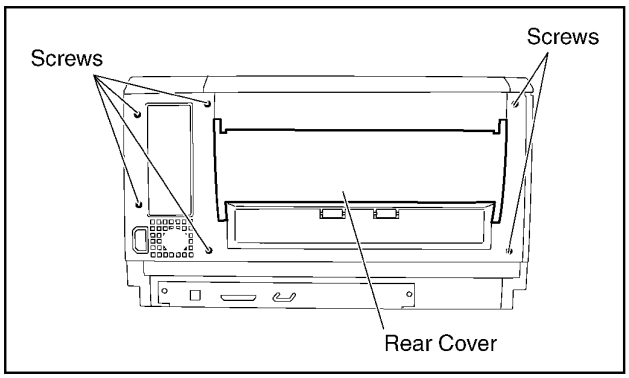


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8.2. Exterior

8.2.1. Rear Cover (with Post-imprinter Door)

(1) Remove the 6 screws and pull the Rear Cover (with Post-imprinter Door) to release it from the scanner.

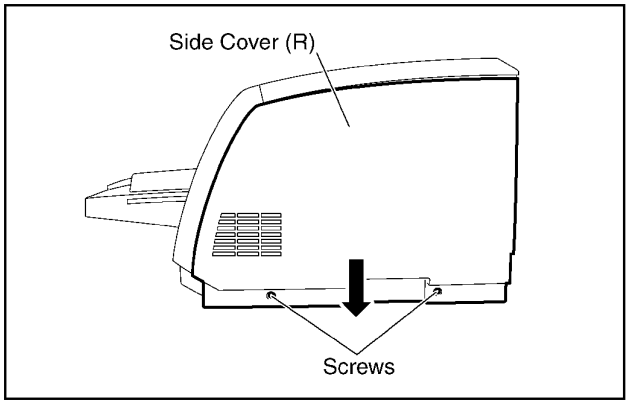


(Back View)

8.2.2. Side Cover (R)

(1) Remove the 2 screws.

(2) Remove the Side Cover (R), pushing down it in the direction of the arrow.



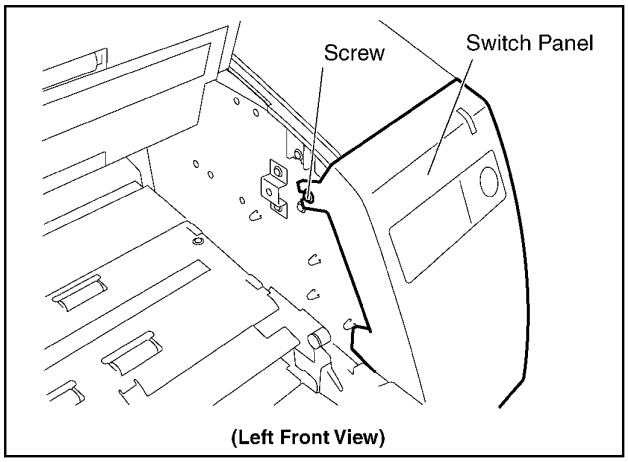
(Right Side View)

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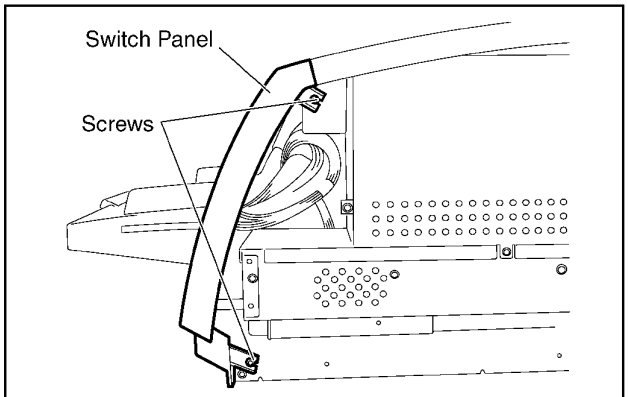
8.2.3. Switch Panel

(1) Remove the Side Cover (R). (See 8.2.2.)

(2) Remove the 3 screws.

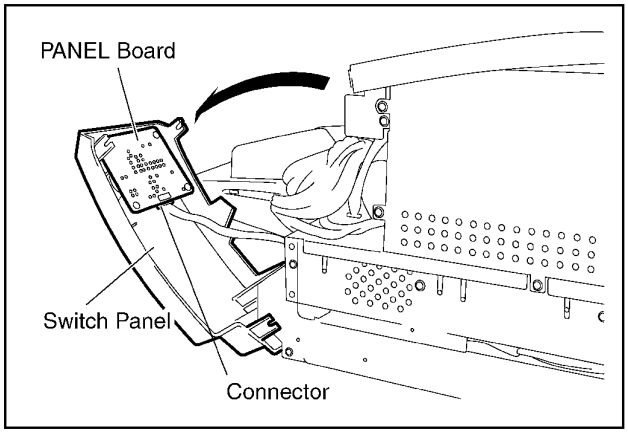


(Left Front View)



(Rignt Side View)

(3) Pull the Switch Panel forward and disconnect the connector to PANEL Board to release the panel from the scanner.



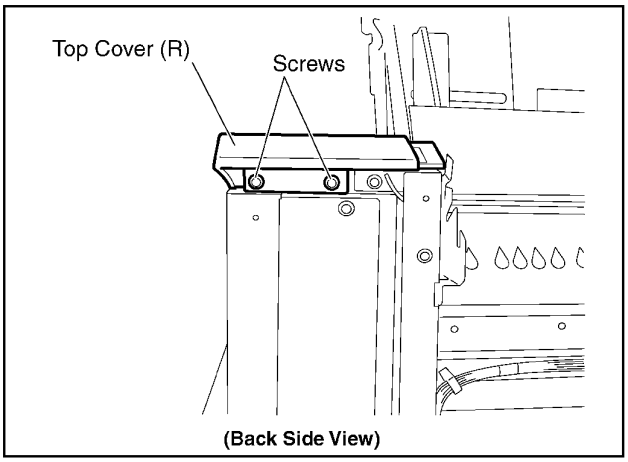
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8.2.4. Top Cover (R)

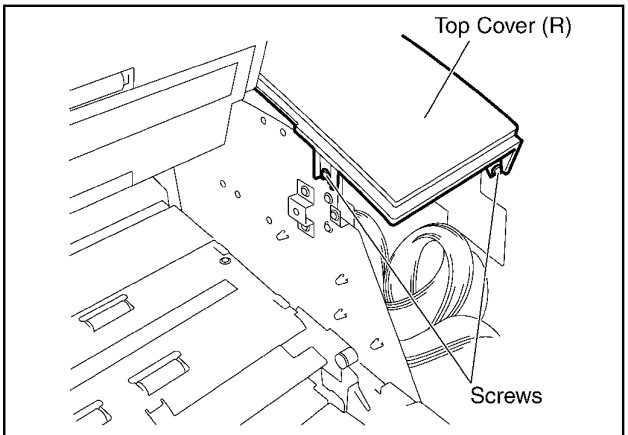
(1) Remove the Rear Cover. (See 8.2.1.)

(2) Remove the Switch Panel. (See 8.2.3.)

(3) Remove the 4 screws, and pull up the Top Cover (R).



(Back Side View)



(Left Front View)

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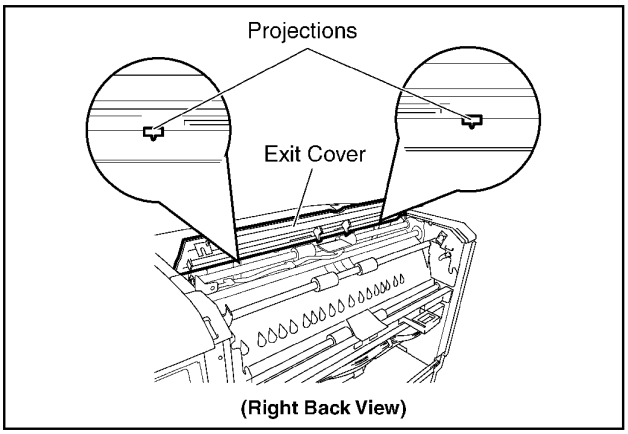
8.2.5. Exit Cover

(1) Remove the Rear Cover with Post-imprinter Door. (See 8.2.1.)

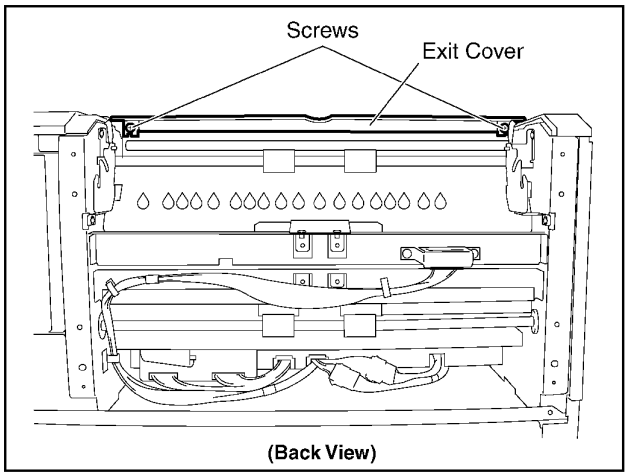
(2) Remove the 2 screws and pull the Exit Cover in the direction of the arrows (1) to (2).

Reassembling Note

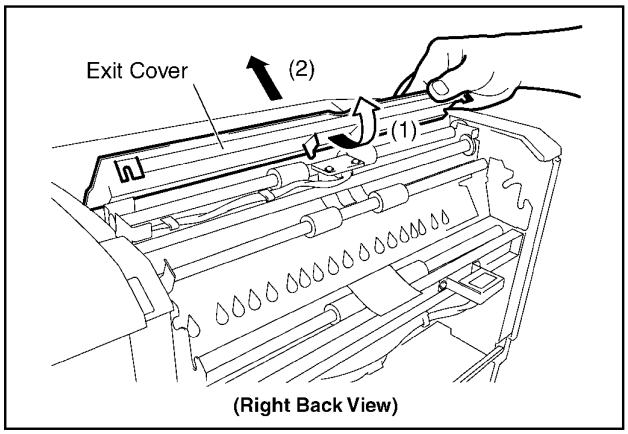
Be sure to attach the Exit Cover, hanging the 2 projections of the cover to both holes of the plate.



(Right Back View)



(Back View)

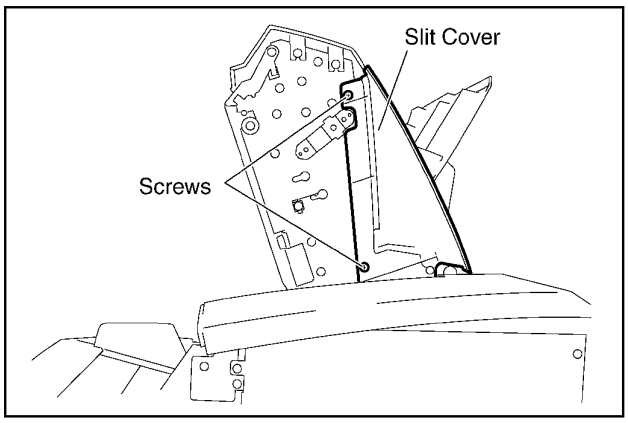


(Right Back View)

8.2.6. Pre-imprinter Door

(1) Remove the Exit Cover. (See 8.2.5.)

(2) Remove the 2 screws and Slit Cover.



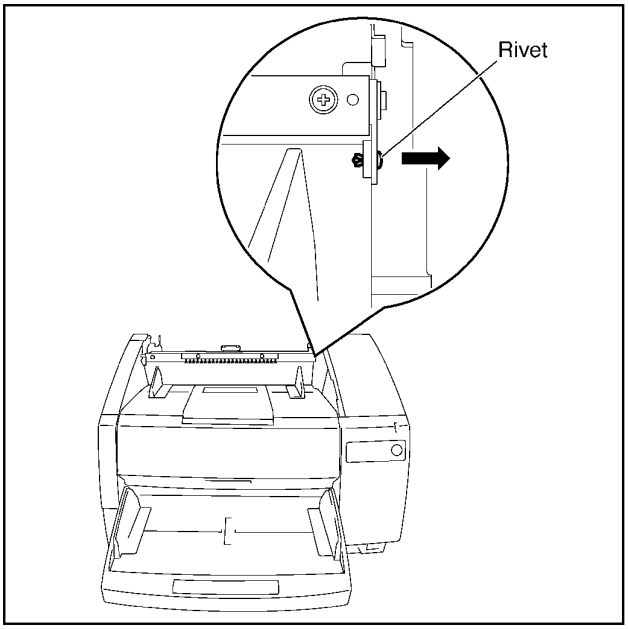
(Right Side View)

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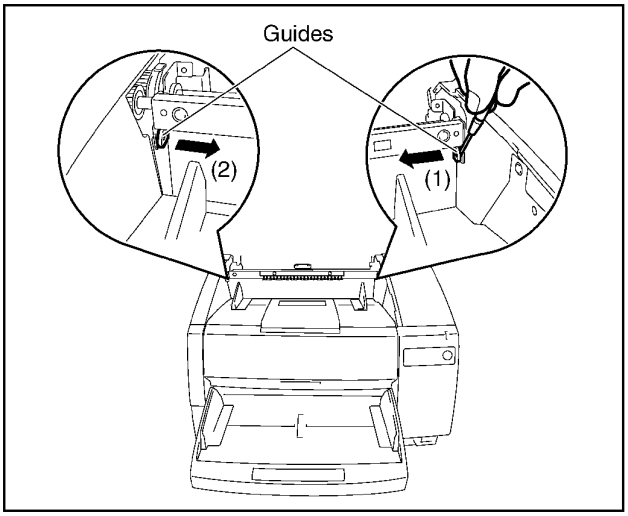
(3) Remove the rivet by pulling out it while holding the heel in the direction of arrow.

Note:

Be careful not to drop the rivet in the scanner.

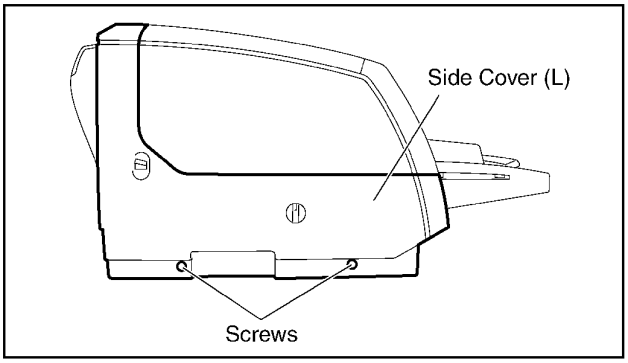


(4) Remove the Pre-imprinter Door, releasing the 2 guides on both sides of the door from the scanner in the direction of the arrows.



8.2.7. Side Cover (L)

(1) Remove the 2 screws.

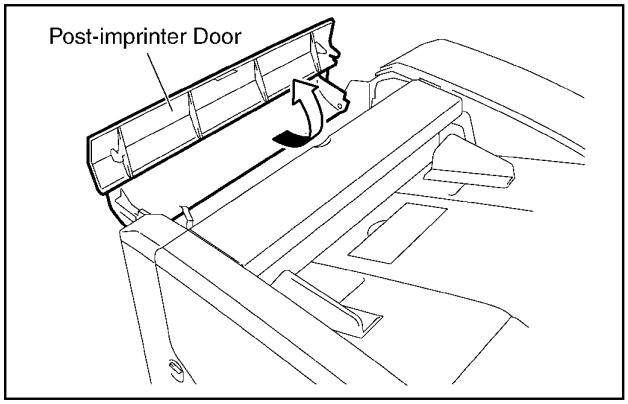


(Left Side View)

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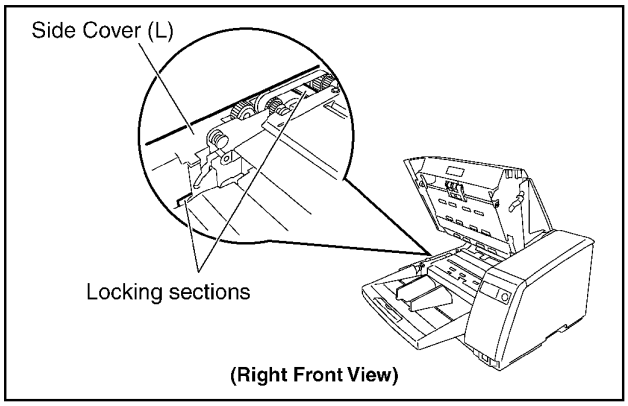
(2) Pull the Front Door Release to open the Front Door.

(3) Open the Post-imprinter Door.

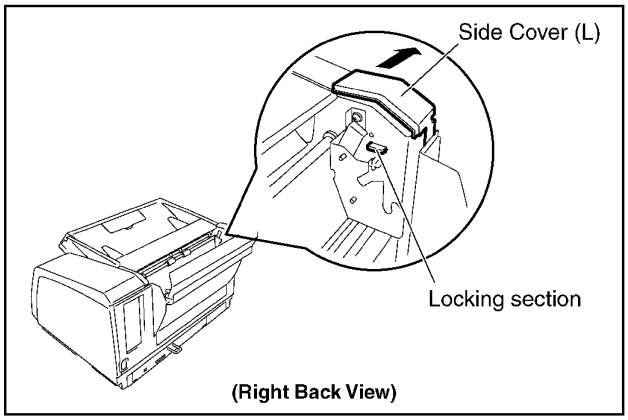


(Left Front View)

(4) Push down the 3 locking sections to release the Side Cover (L) from the scanner in the direction of the arrow.



(Right Front View)



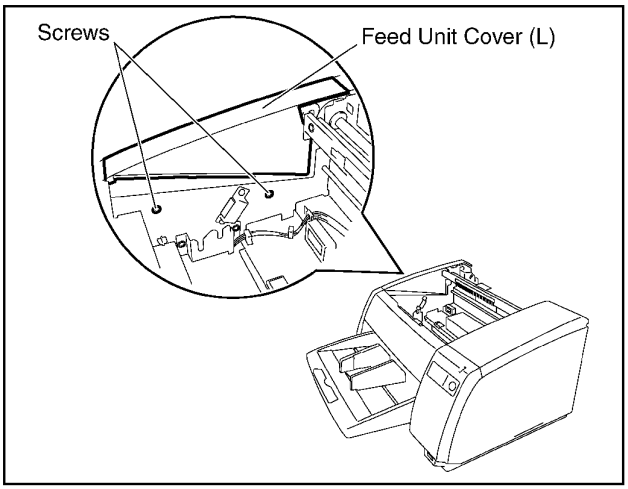
(Right Back View)

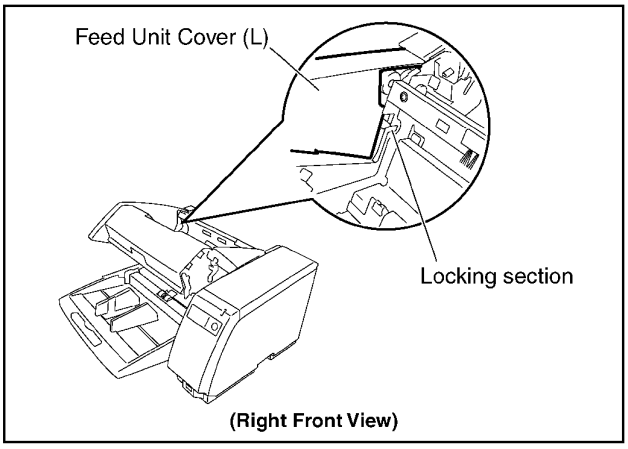
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8.2.8. Feed Unit Cover (L)

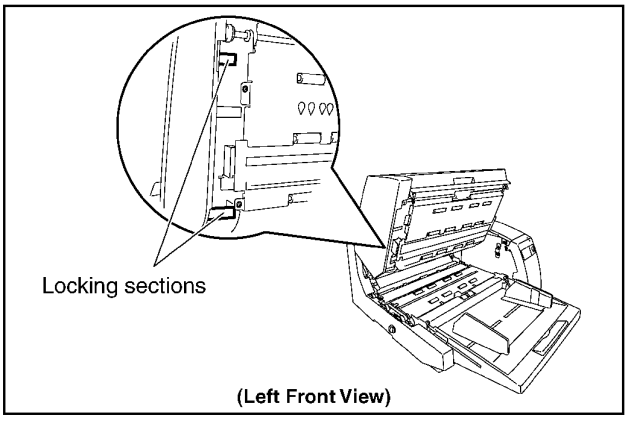
(1) Remove the Pre-imprinter Door. (See 8.2.6.)

(2) Remove the 2 screws and release the 3 locking sections to release the Feed Unit Cover (L) from the scanner.





(Right Front View)



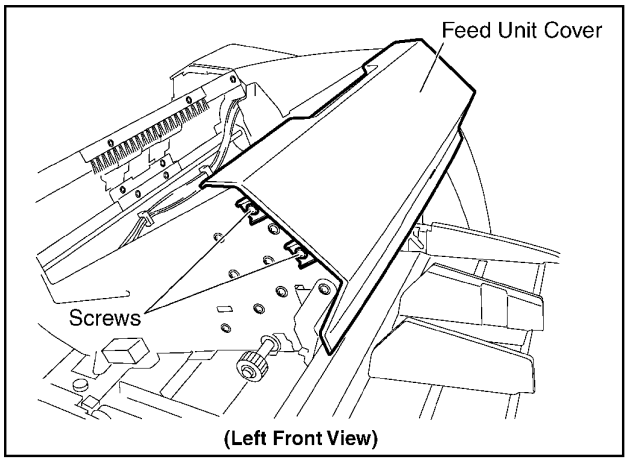
(Left Front View)

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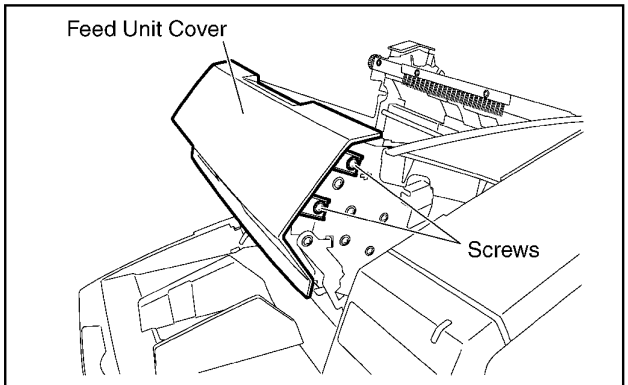
8.2.9. Feed Unit Cover

(1) Remove the Feed Unit Cover (L). (See 8.2.8.)

(2) Remove the 4 screws and Feed Unit Cover.



(Left Front View)



(Right Front View)

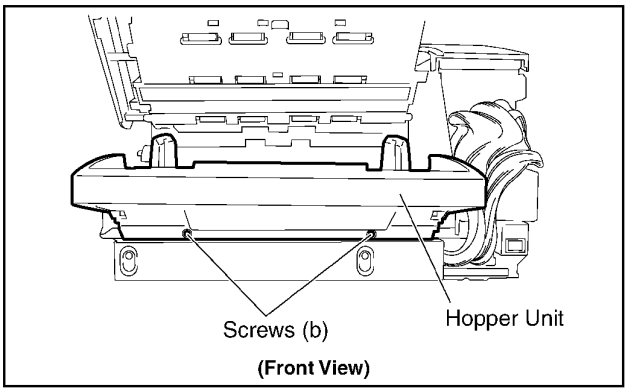
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8.2.10. Hopper Unit

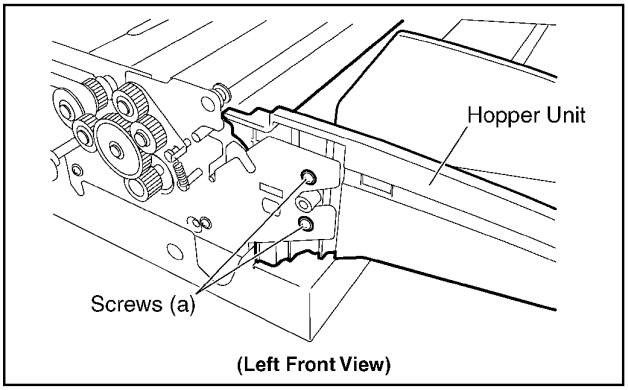
(1) Remove the Switch Panel. (See 8.2.3.)

(2) Remove the Side Cover (L). (See 8.2.7.)

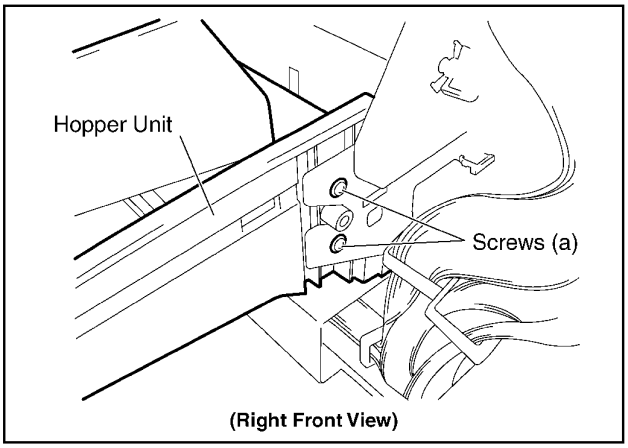
(3) Remove the 4 screws (a) and 2 screws (b).



(Front View)



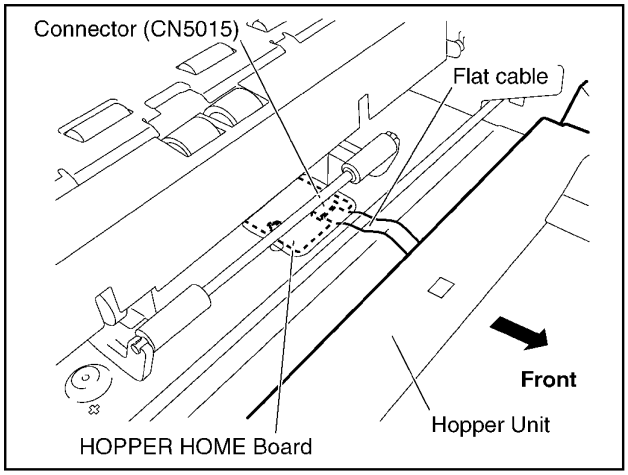
(Left Front View)



(Right Front View)

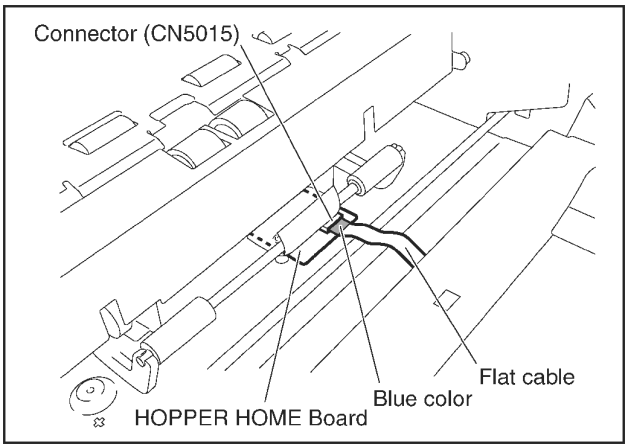
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(4) Pull the Hopper Unit forward slightly and disconnect the flat cable to CN5015 on the HOPPER HOME Board to release the unit from the scanner.



Reassembling Note:

The flat cable with blue color (connected to CN5015) should be in the upper side.



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8.3. Unit Components

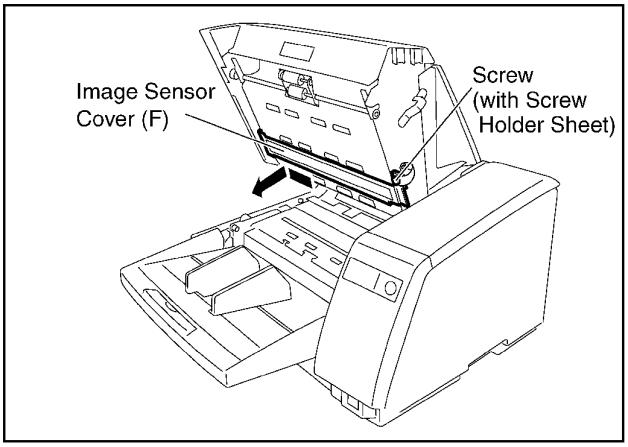
8.3.1. Image Sensor Cover (F)

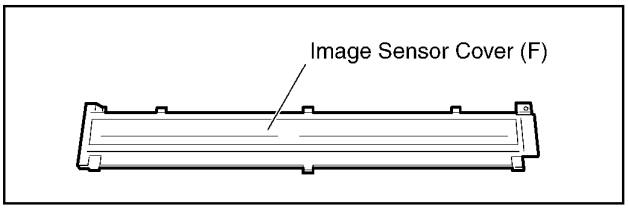
⚠ **Caution:**

The Image Sensor Cover (F) and its surroundings may be hot after scanning a lot of documents continuously. Be sure to allow the inside of the scanner to cool down before performing any maintenance or coming in contact with the inside of the unit.

(1) Remove the screw with Screw Holder Sheet.

(2) Slide Image Sensor Cover (F) in the direction of the arrow to release it from the scanner.





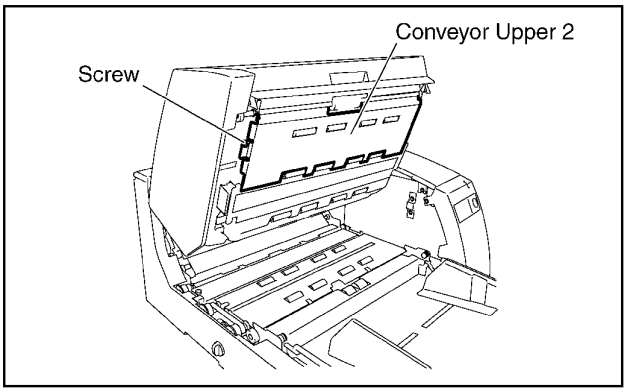
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8.3.2. Conveyor Upper 2

(1) Remove the Image Sensor Cover (F). (See 8.3.1.)

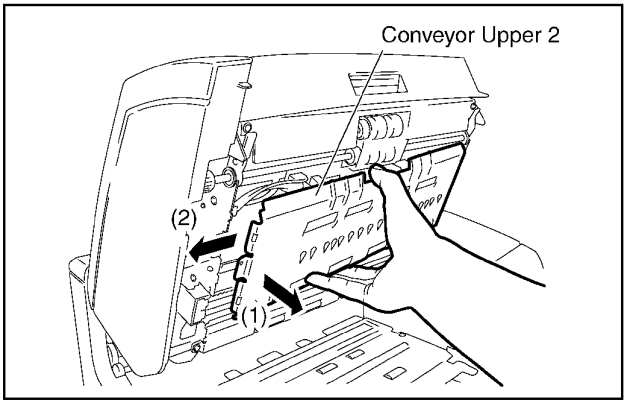
(2) Remove the screw.

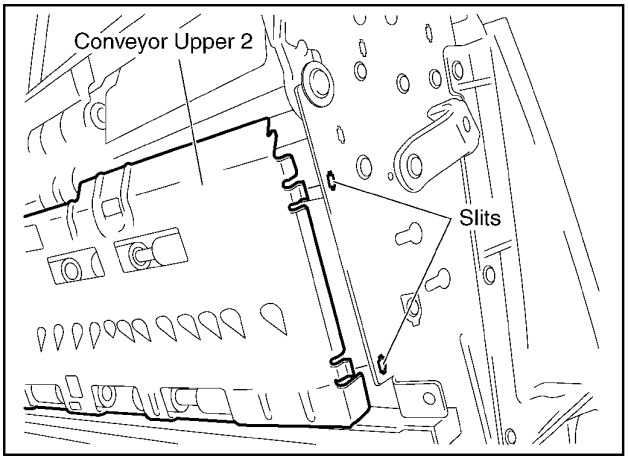
(3) Slide the Conveyor Upper 2 in the direction of the arrows (1) to (2), holding the plate surface to release it from the scanner.

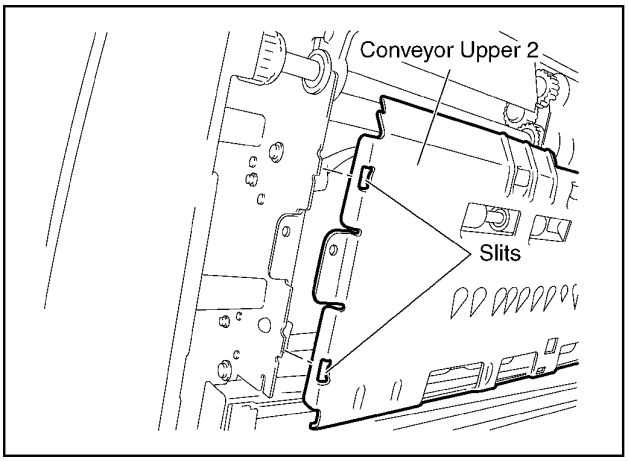


Reassembling Note:

When reattaching the Conveyor Upper 2, be sure to fasten the screw after inserting the conveyor to the slits on the right side of the scanner, seen from the front. Otherwise, paper jamming may occur when scanning.





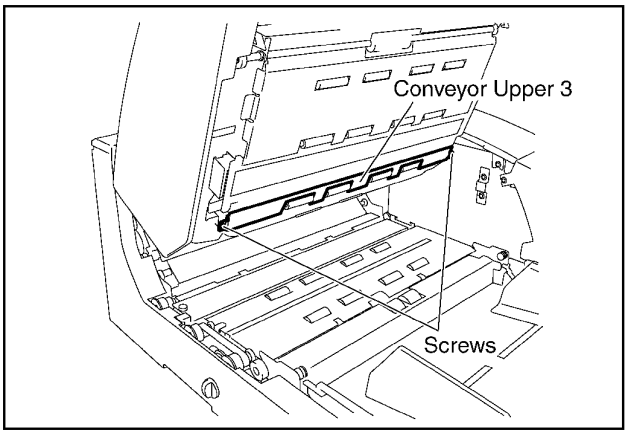


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8.3.3. Conveyor Upper 3

(1) Remove the Image Sensor Cover (F). (See 8.3.1.)

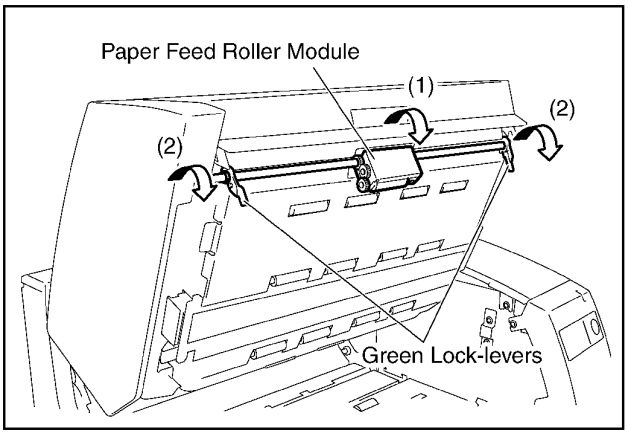
(2) Remove the 2 screws and Conveyor Upper 3.



8.3.4. Paper Feed Roller Module

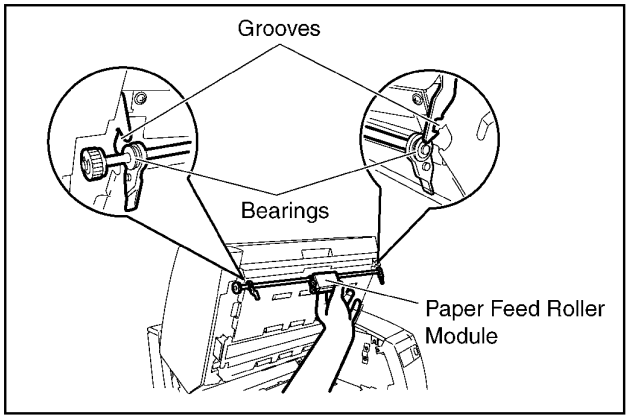
(1) Pull down the Paper Feed Module in the direction of the arrow (1), hanging your finger on the center shaft of the module.

(2) Push down the Green Lock-levers on both sides in the direction of the arrows (2) to release and remove the Paper Feed Module from the scanner.



Reassembling Note:

Be sure to match both bearings of the module with the guide grooves on both sides of the chassis.



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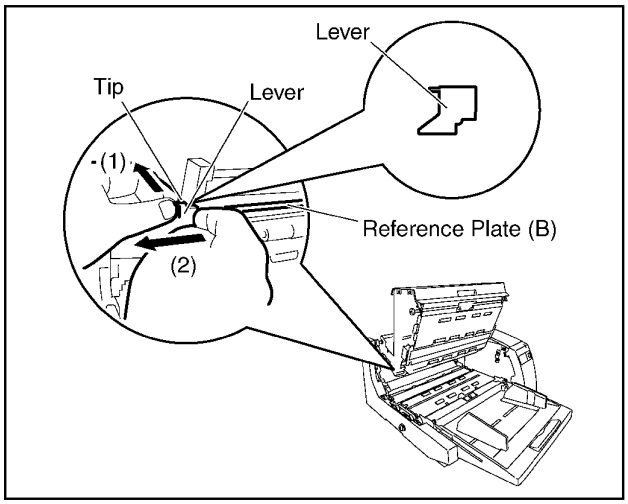
8.3.5. CIS (F) & Lamp Drive (F) Board

(1) Remove the RELAY (UPPER) Board. (See 8.4.5.)

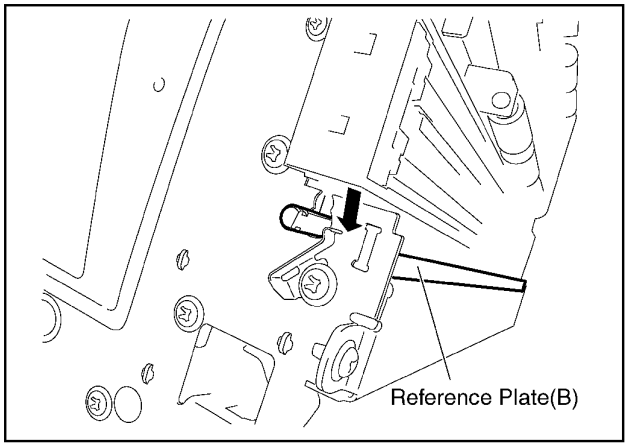
(2) Remove the Feed Unit Cover (L). (See 8.2.8.)

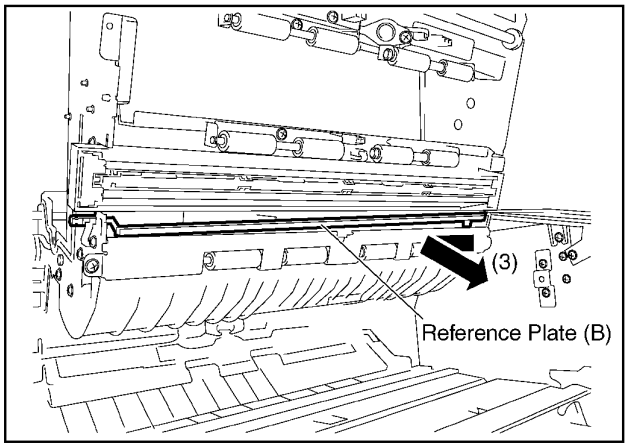
(3) Remove the Conveyor Upper 2. (See 8.3.2.)

(4) Pull the lever of the Reference Plate (B) in the direction of the arrow (2), releasing the tip of the lever in the direction of the arrow (1).



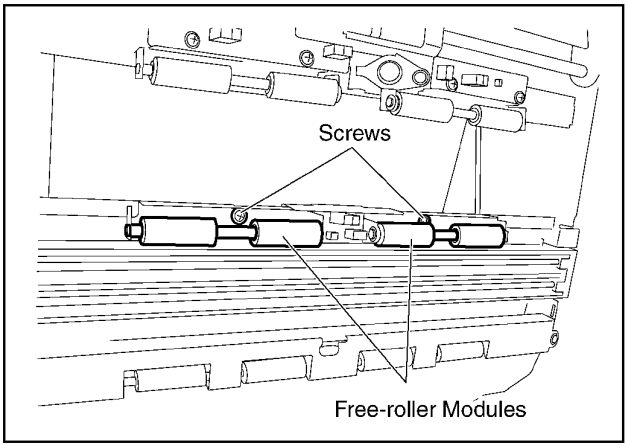
(5) Unlock the Reference Plate (B) from the notching hole and remove the plate in the direction of the arrow (3).



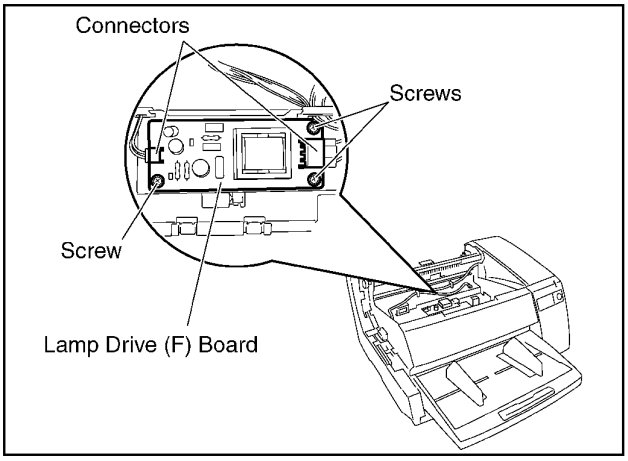


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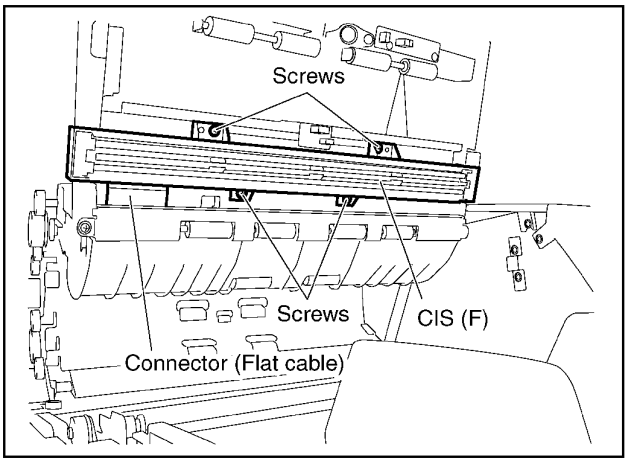
(6) Remove the 2 screws to release the 2 Free-roller Modules from the scanner.



(7) Disconnect the 2 connectors and remove 3 screws on the Lamp Drive (F) Board.



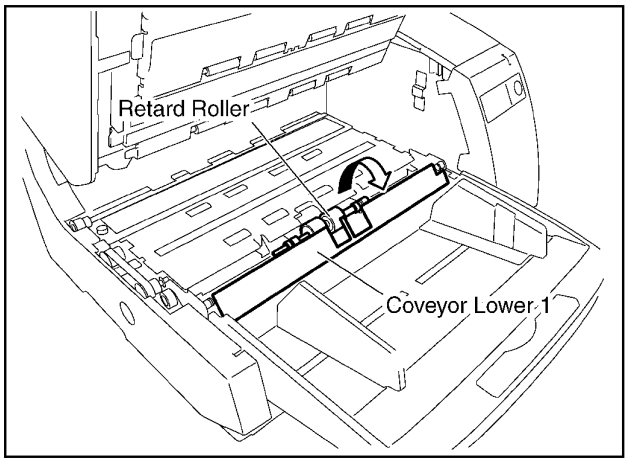
(8) Remove the 4 screws, and disconnect the connector (Flat cable) to the CIS (F) RELAY Board. And release the CIS (F) from the scanner.



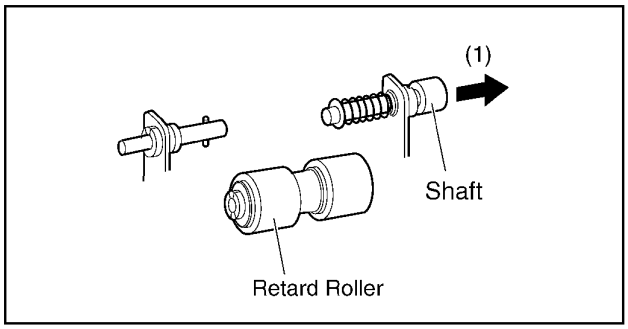
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8.3.6. Retard Roller

(1) Open the Conveyor Lower 1 in the direction of the arrow shown in the figure.

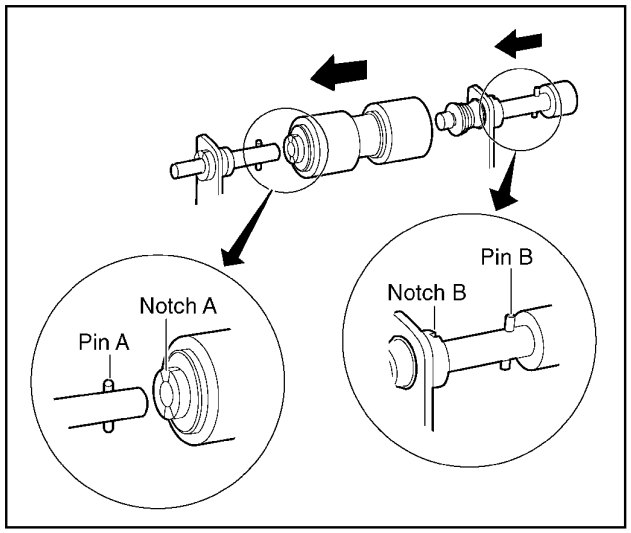


(2) Pull the Shaft in the direction of the arrow (1) to release and remove the Retard Roller.



Reassembling Note:

Pay attention to the roller attachment so that pins A, B are inserted in each Notch A, B surely. Otherwise, a double-feeding or paper jamming may occur.



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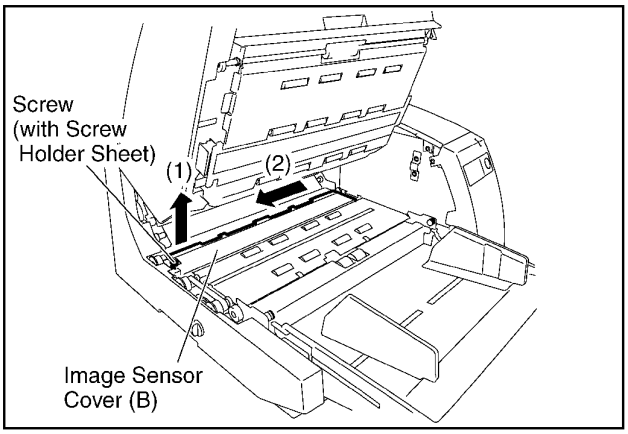
8.3.7. Image Sensor Cover (B)

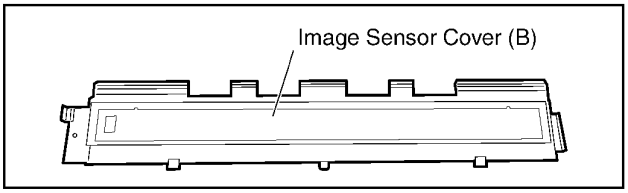
⚠ **Caution:**

The Image Sensor Cover (B) and its surroundings may be hot after scanning a lot of documents continuously. Be sure to allow the inside of the scanner to cool down before performing any maintenance or coming in contact with the inside of the unit.

(1) Remove the screw with Screw Holder Sheet.

(2) Slide the Image Sensor Cover (B) (wider than Image Sensor Cover (F)) in the direction of the arrows (1) to (2) to release it from the scanner.





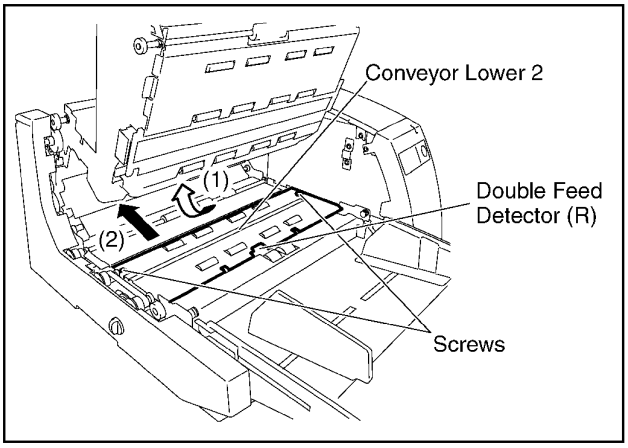
8.3.8. Conveyor Lower 2

(1) Remove the Image Sensor Cover (B). (See 8.3.7.)

(2) Remove the Feed Unit Cover (L). (See 8.2.8.)

(3) Remove the 2 screws.

(4) Take out the Conveyor Lower 2 in the direction of the arrows (1) to (2) not to tough the edge of the conveyor to the Double Feed Detector (R).



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8.3.9. Drive Belt

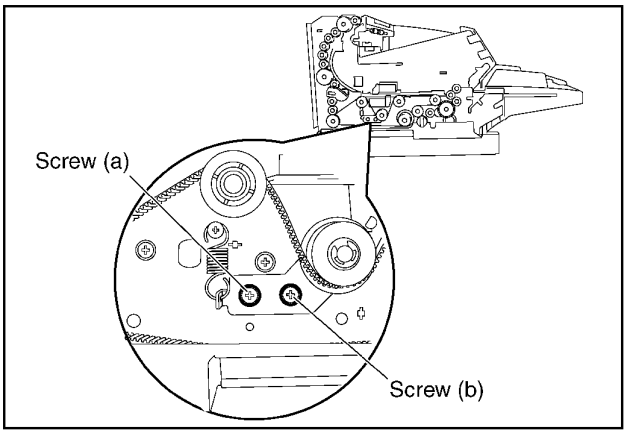
(1) Remove the Conveyor Lower 2. (See 8.3.8.)

(2) Remove the Side Cover (L). (See 8.2.7.)

(3) Loosen the screw (a) and screw (b).

(4) Slide down the spring until it goes and fasten the screw (a).

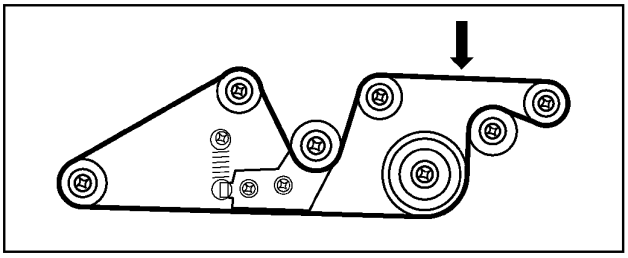
(5) Remove the Drive Belt.

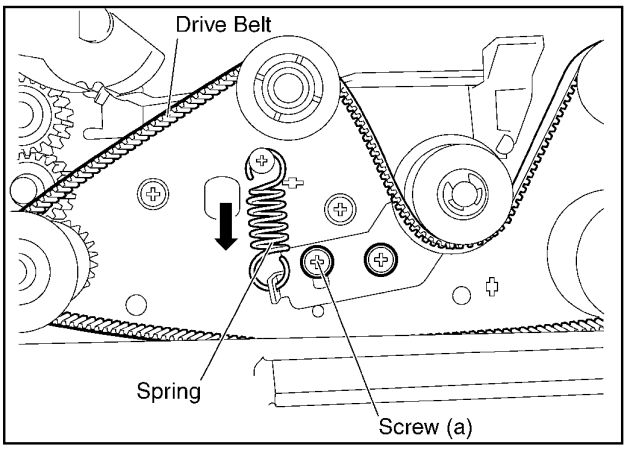


Reassembling Note:

BELT LAYOUT

Tension of the belt: Adjust the belt tension having about 5 mm bent by pressing the arrow point by finger tip with 5 N.

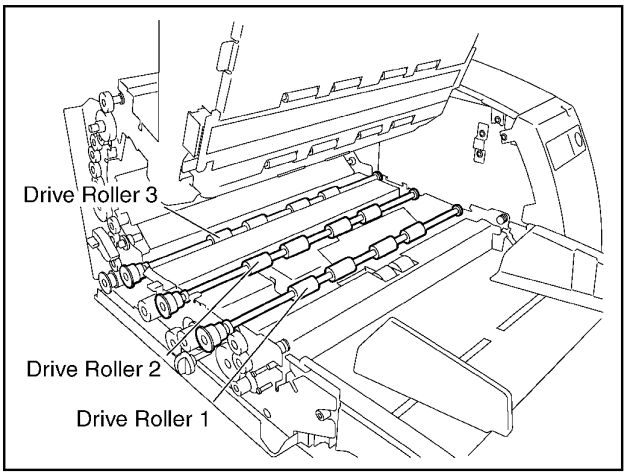


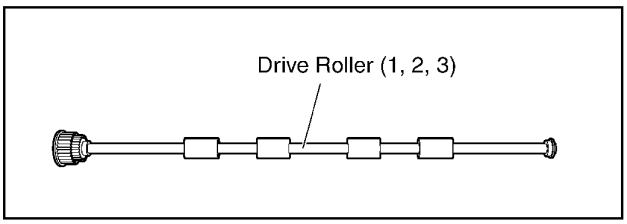


8.3.10. Drive Rollers 1, 2, 3

(1) Remove the Drive Belt. (See 8.3.9.)

(2) Unlock the Drive Rollers 1, 2, and 3 from the notching holes of the chassis and remove them.





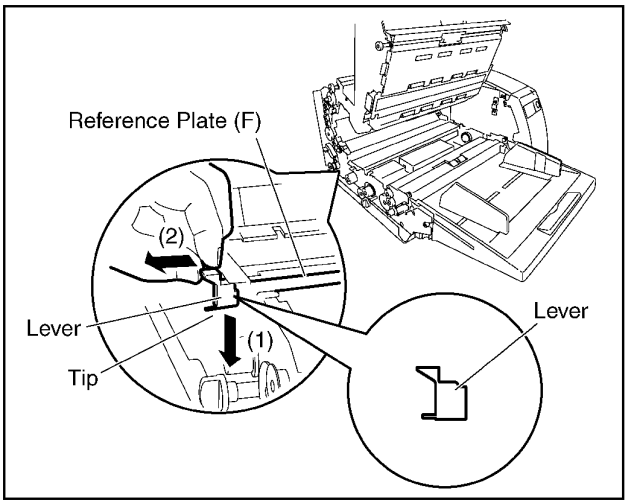
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8.3.11. CIS (B) & Lamp Drive (B) Board

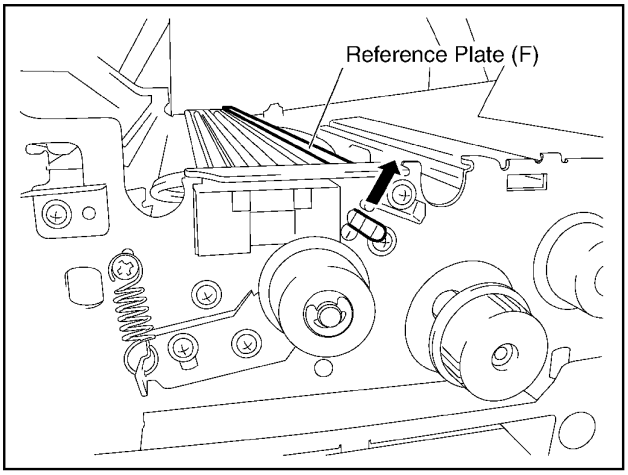
(1) Remove the Drive Rollers 1, 2, and 3. (See 8.3.10.)

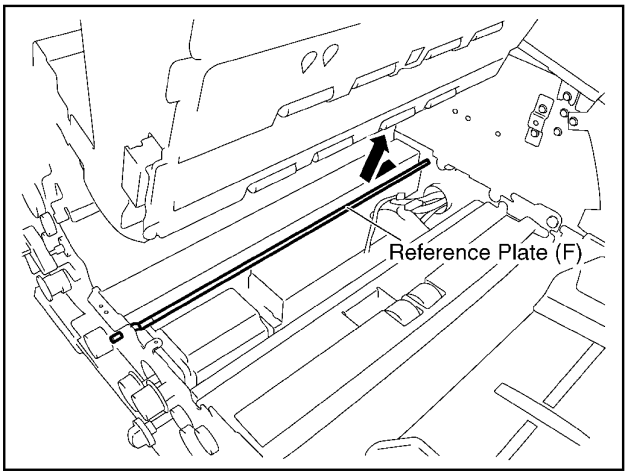
(2) Remove the RELAY (LOWER) Board. (See 8.4.13.)

(3) Pull the Lever of the Reference Plate (F) in the direction of the arrow (2), releasing the tip of the Lever in the direction of the arrow (1).



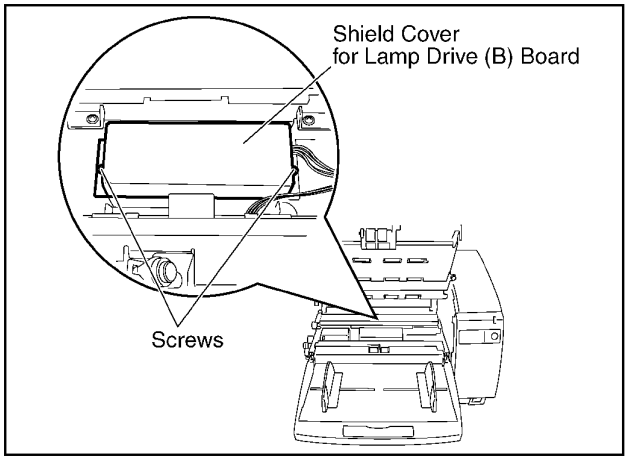
(4) Unlock the Reference Plate (F) from the notching hole and remove the plate longer than Reference Plate (B) located at the upper.



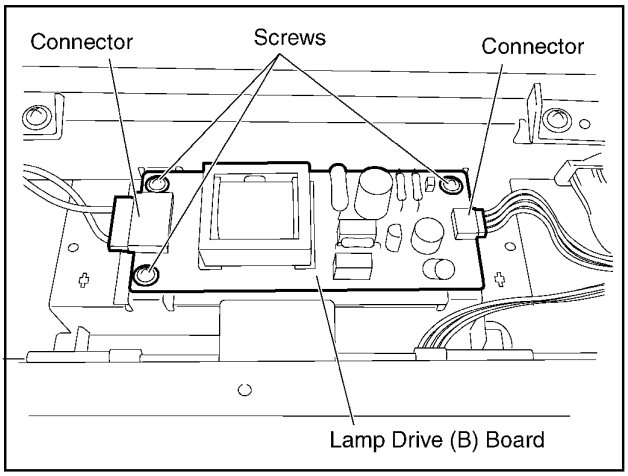


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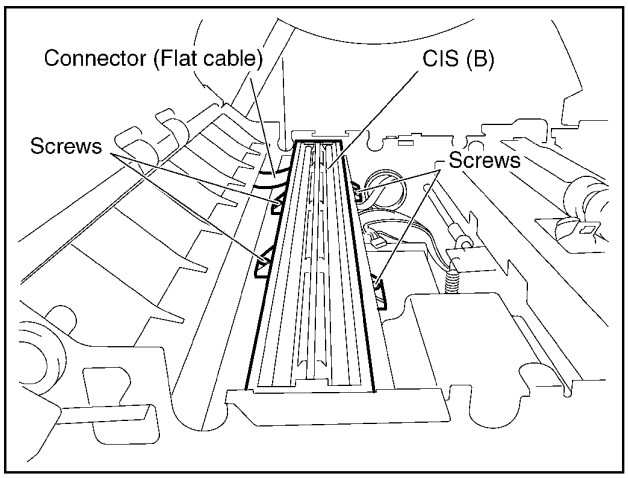
(5) Remove the 2 screws and Shield Cover for Lamp Drive (B) Board.



(6) Disconnect the 2 connectors and remove the 3 screws on the Lamp Drive (B) Board.



(7) Remove the 4 screws, and disconnect the connector (Flat cable) to the CIS (B) RELAY Board. And release the CIS (B) from the scanner.



(Left Side View)

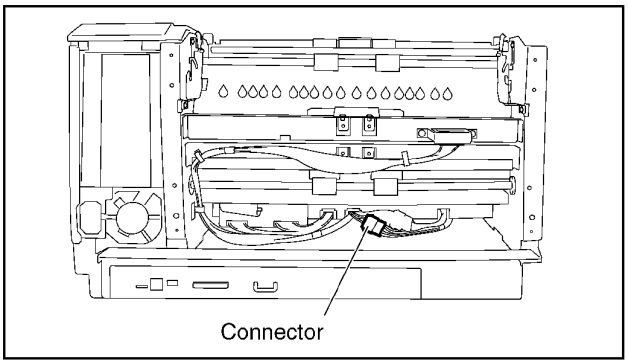
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8.3.12. Conveyor Motor

(1) Remove the Drive Roller 1, 2, and 3. (See 8.3.10.)

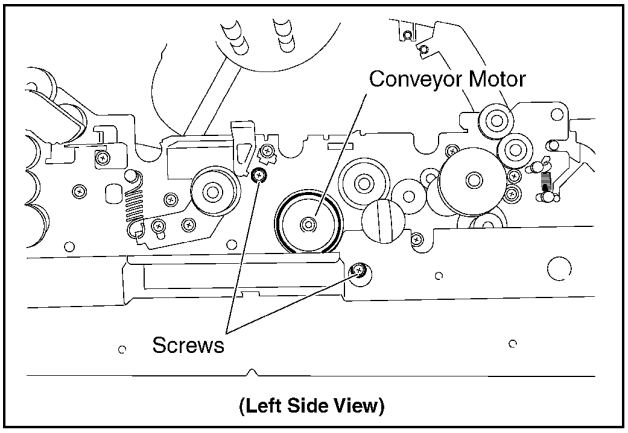
(2) Remove the Rear Cover with Post-imprinter Door. (See 8.2.1.)

(3) Disconnect the relay-connector (Wire color: Blue and white at the POWER RELAY Board's side) to the POWER RELAY Board.

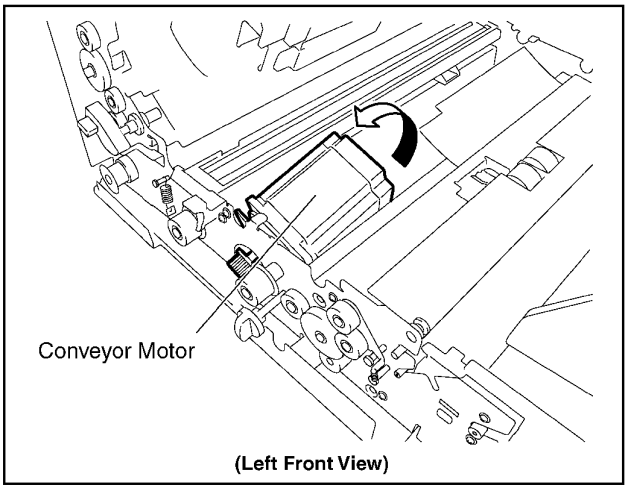


(Back Side View)

(4) Remove the 2 screws and pull the Conveyor Motor in the direction of the arrow to remove it.



(Left Side View)



(Left Front View)

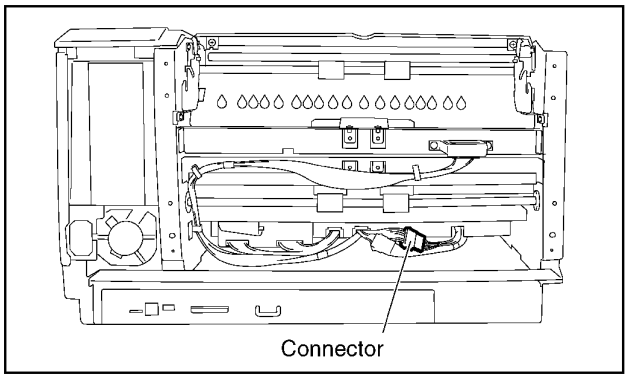
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8.3.13. Paper Feed Motor

(1) Remove the Rear Cover with Post-imprinter Door. (See 8.2.1.)

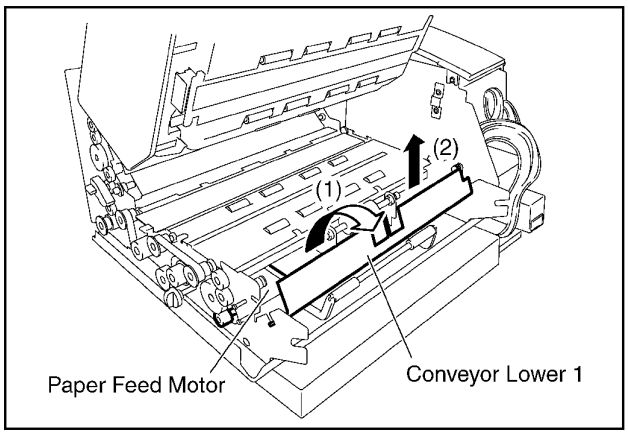
(2) Remove the Hopper Unit. (See 8.2.10.)

(3) Disconnect the relay-connector (Wire color: Yellow and white at the POWER RELAY Board's side) to the POWER RELAY Board.



(Back Side View)

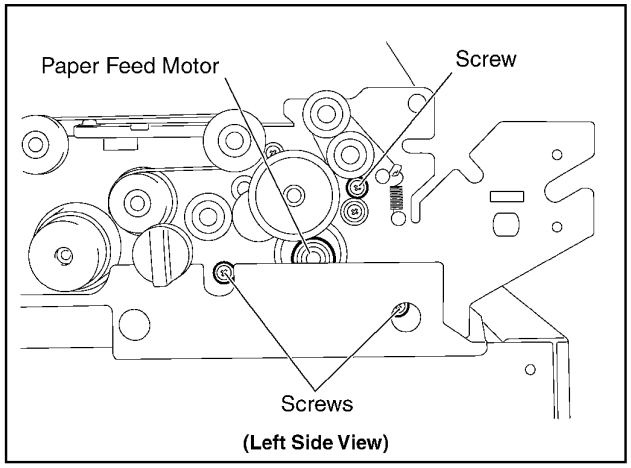
(4) Remove the Conveyor Lower 1.



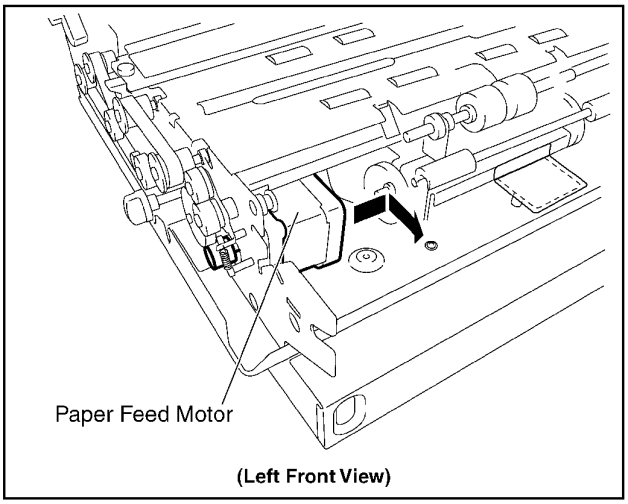
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(5) Remove the 3 screws.

(6) Pull the Paper Feed Motor forward to remove it.



(Left Side View)



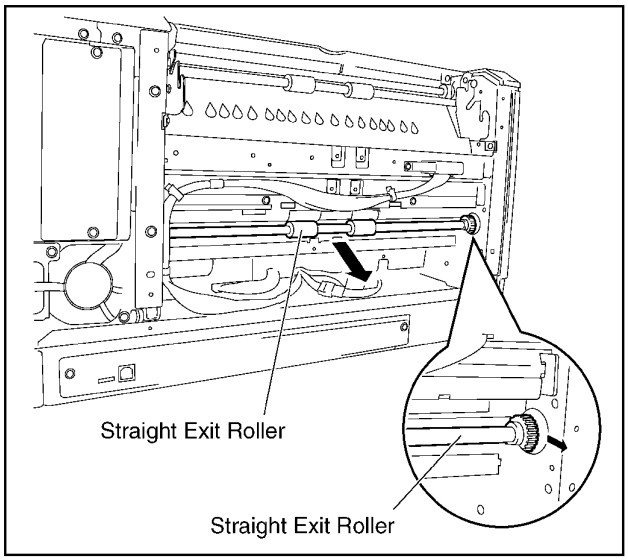
(Left Front View)

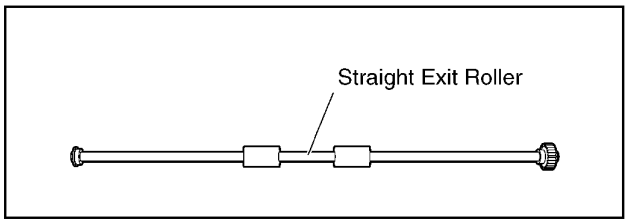
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8.3.14. Straight Exit Roller

(1) Remove the Rear Cover with Post-imprinter Door. (See 8.2.1.)

(2) Unlock the Straight Exit Roller from the notching holes of the chassis and remove it.

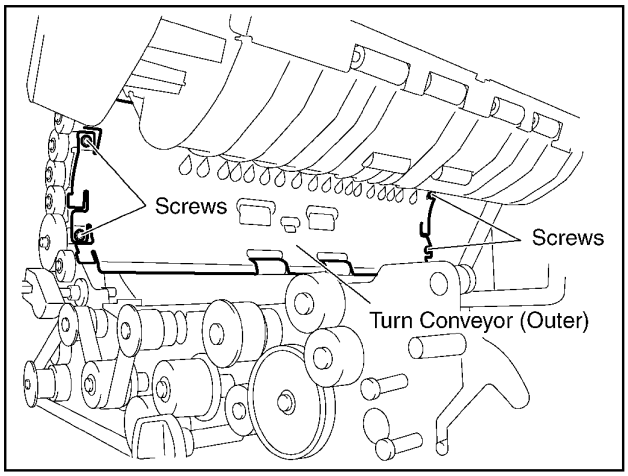




8.3.15. Turn Conveyor (Outer)

(1) Remove the Side Cover (L). (See 8.2.7.)

(2) Remove the 4 screws and Turn Conveyor (Outer).



(Left Front View)

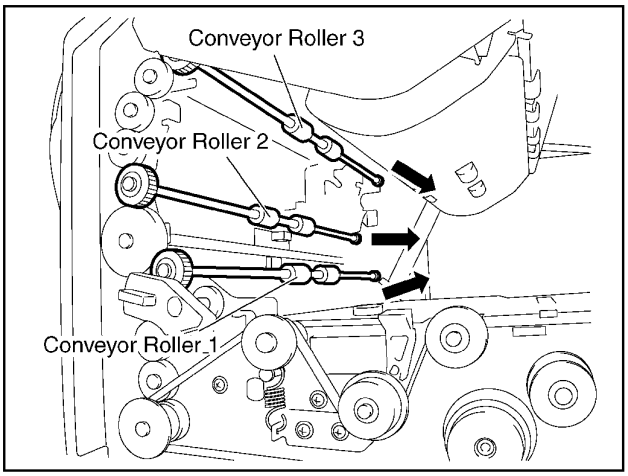
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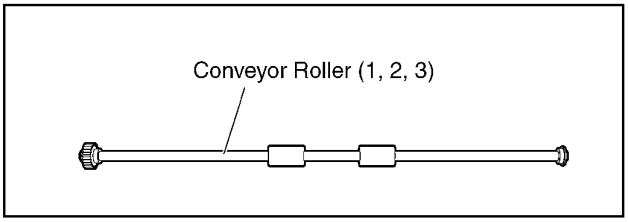
8.3.16. Conveyor Rollers 1, 2, 3

(1) Remove the Rear Cover with Post-imprinter Door. (See 8.2.1.)

(2) Remove the Turn Conveyor (Outer). (See 8.3.15.)

(3) Unlock the Conveyor Rollers 1, 2, and 3 from the notching holes of the chassis and remove them.



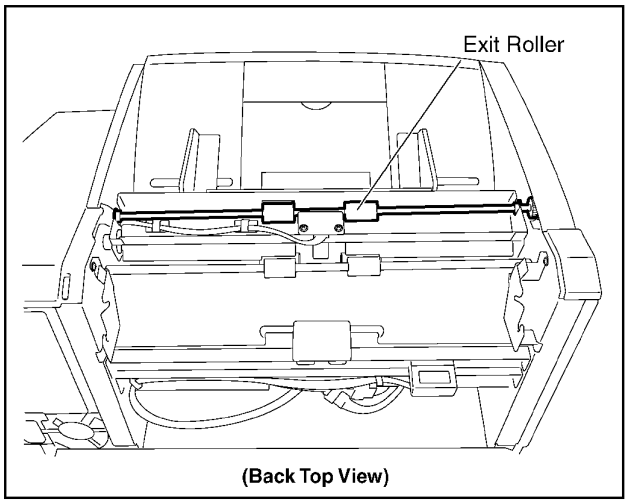


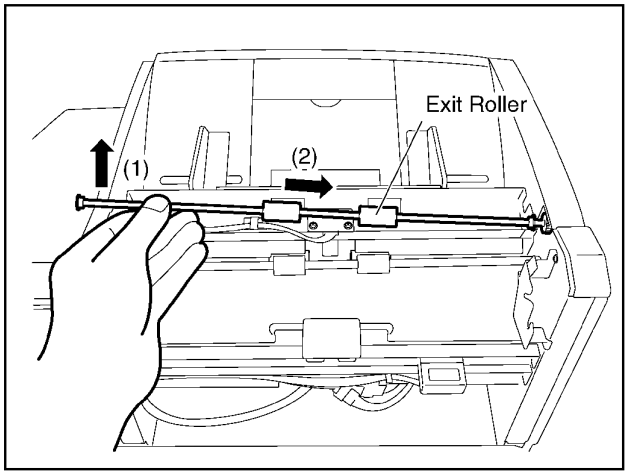
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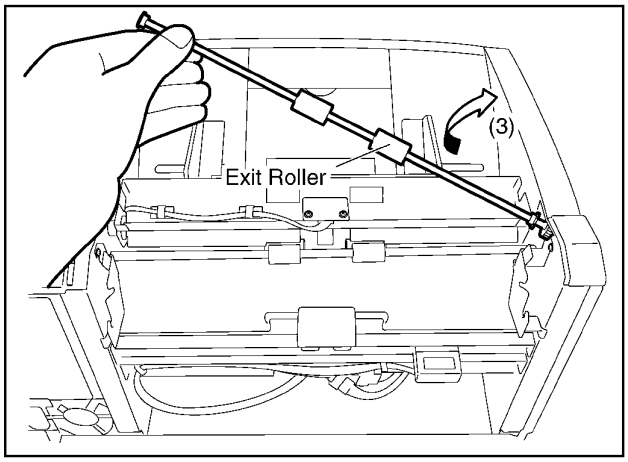
8.3.17. Exit Roller

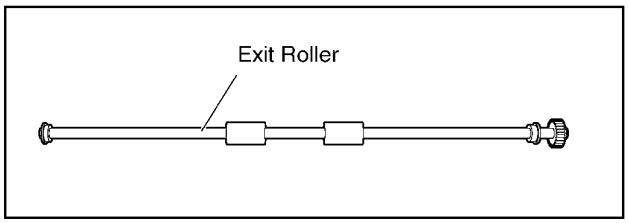
(1) Remove the Exit Cover. (See 8.2.5.)

(2) Unlock the Exit Roller from the notching holes of the chassis and remove it in the direction of the arrows (1) to (3).







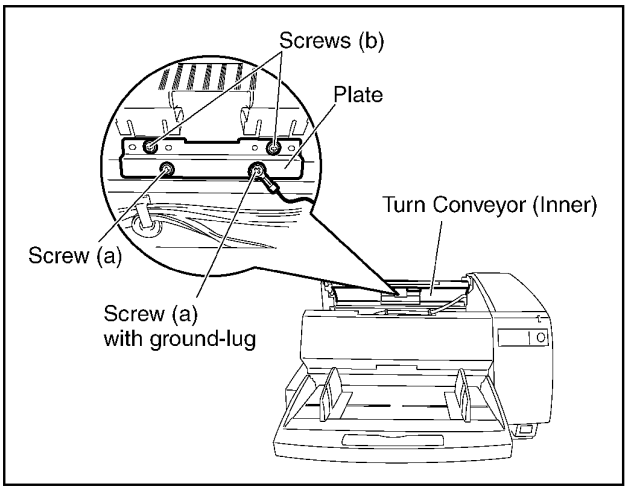


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8.3.18. Turn Conveyor (Inner)

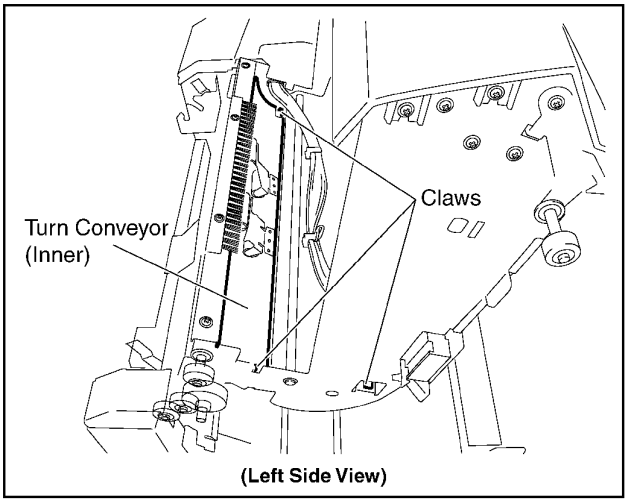
(1) Remove the Feed Unit Cover (L). (See 8.2.8.)

(2) Remove the screw (a), 2 screws (b), and screw (a) with ground-lug to release the plate (for supporting Turn Conveyor's (Inner)) from the scanner.

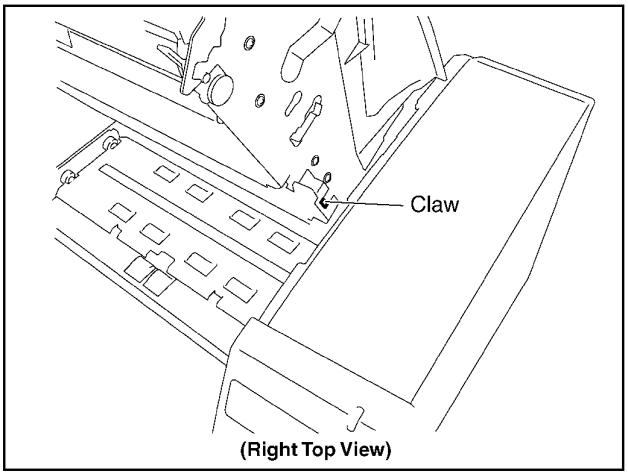


(Front Side View)

(3) Unlock the 4 claws to remove the Turn Conveyor (Inner) from the scanner.



(Left Side View)



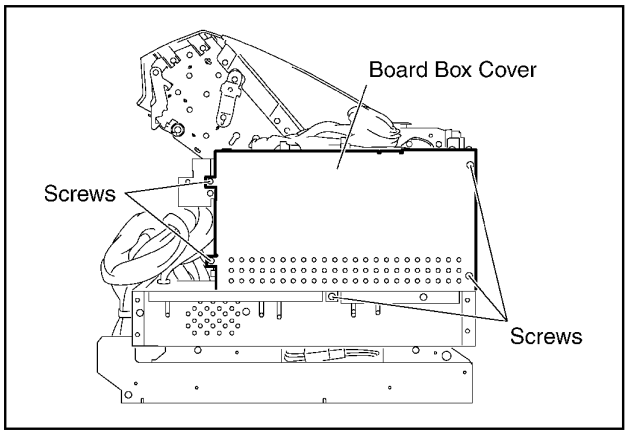
(Right Top View)

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8.3.19. Board Box Cover

(1) Remove the Top Cover (R). (See 8.2.4.)

(2) Remove the 5 screws and Board Box Cover.



(Right Side View)

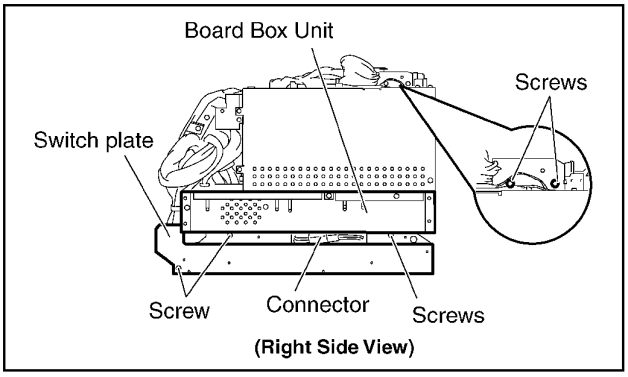
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8.3.20. Board Box Unit

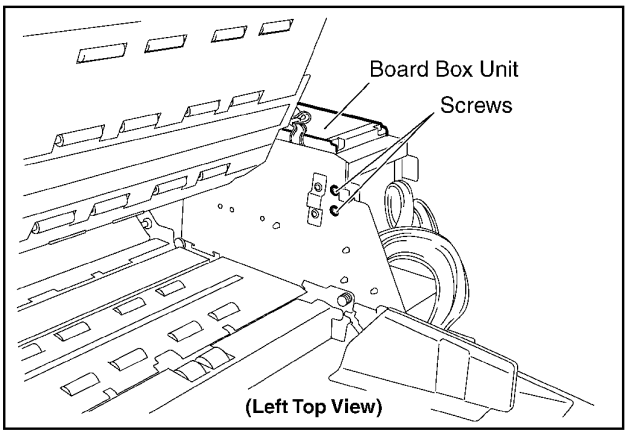
(1) Remove the Top Cover (R). (See 8.2.4.)

(2) Remove the Slit Cover. (See 8.2.6-(2).)

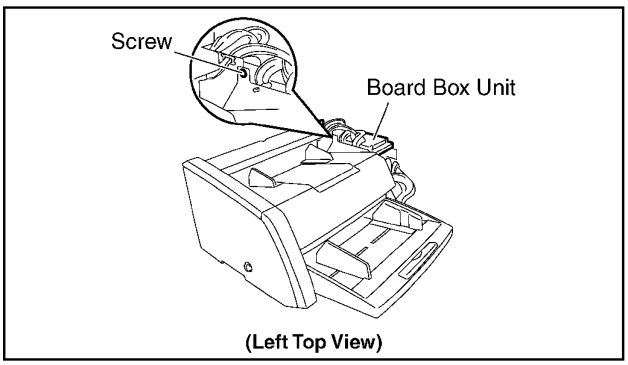
(3) Remove the 9 screws and disconnect the connector.



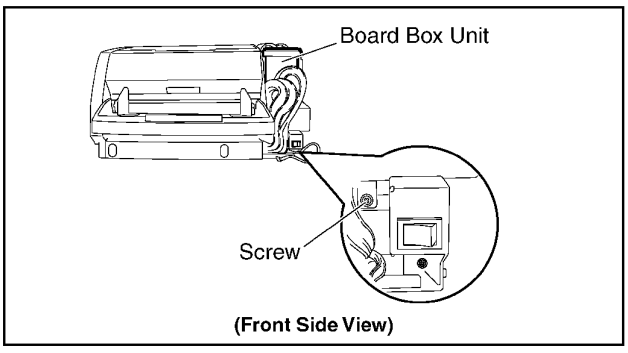
(Right Side View)



(Left Top View)



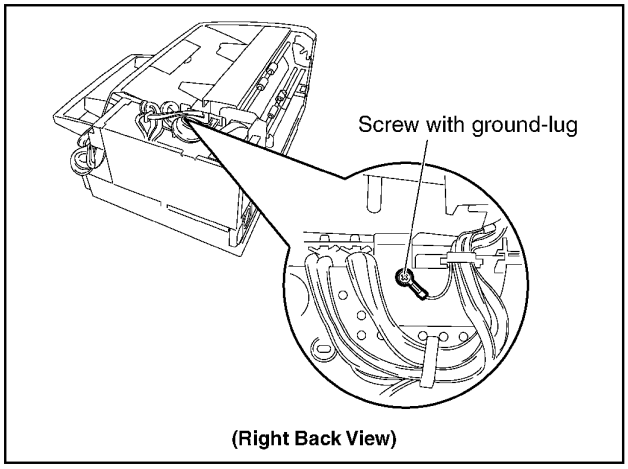
(Left Top View)



(Front Side View)

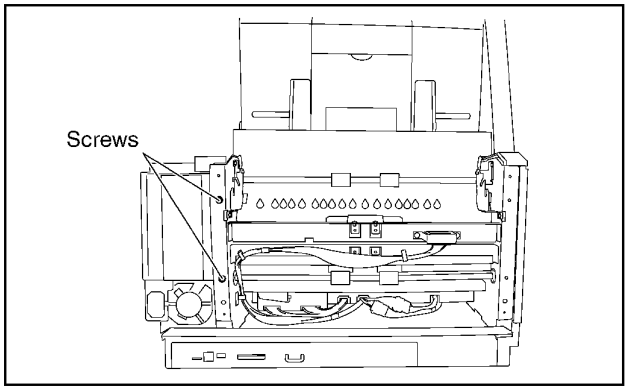
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(4) Remove the screw with ground-lug.



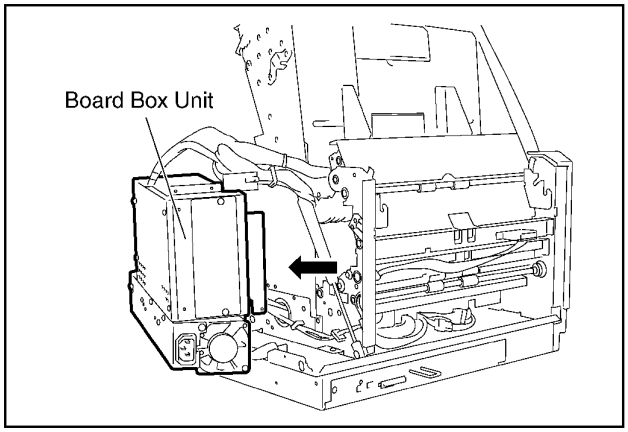
(Right Back View)

(5) Remove the 2 screws from the back.



(Back Side View)

(6) Release the clampers that tie up wires to the Sub-chassis of the scanner, and that tie up wires on the top of the Board Box Unit.



(Right Back View)

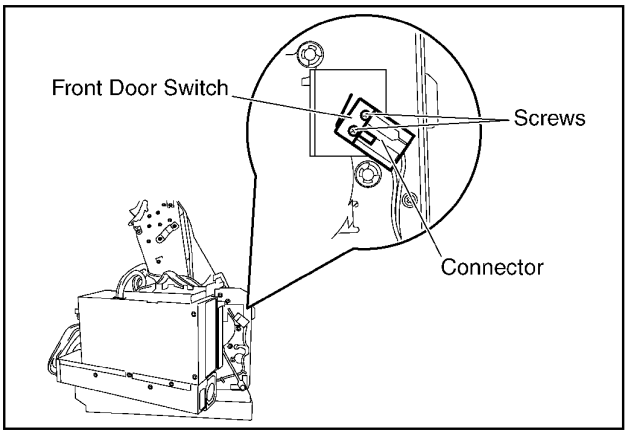
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8.3.21. Front Door Switch

(1) Remove the Board Box Unit. (See 8.3.20.)

(2) Remove the 2 screws.

(3) Disconnect the connector.



(Right Side View)

8.3.22. Gas Spring

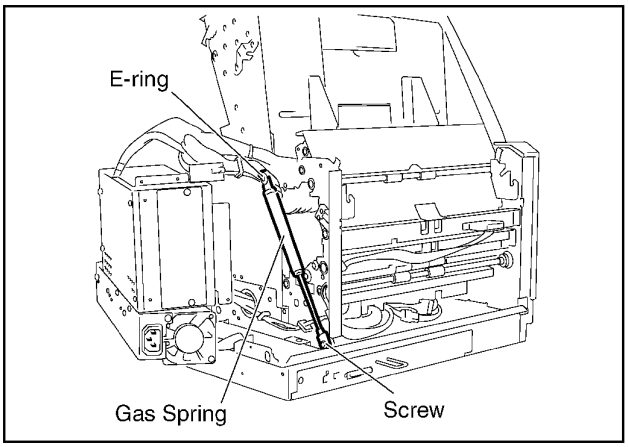
(1) Remove the Board Box Unit. (See 8.3.20.)

(2) Remove the E-ring and screw.

(3) Remove the Gas Spring.

Note:

When removing or reassembling the Gas Spring, be careful not to drop the Front Door.



(Right Side View)

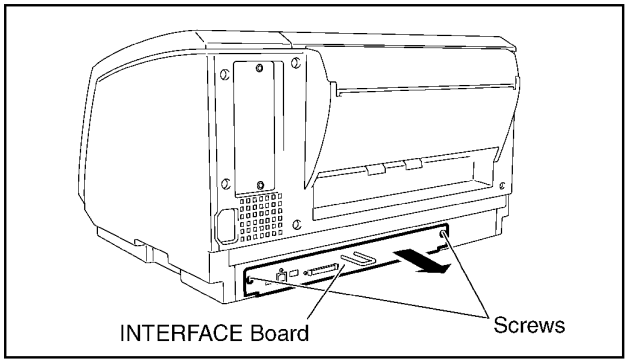
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8.4. Circuit Board Assemblies

8.4.1. INTERFACE Board

(1) Remove the 2 screws.

(2) Pull out the INTERFACE Board in the direction of the arrow.



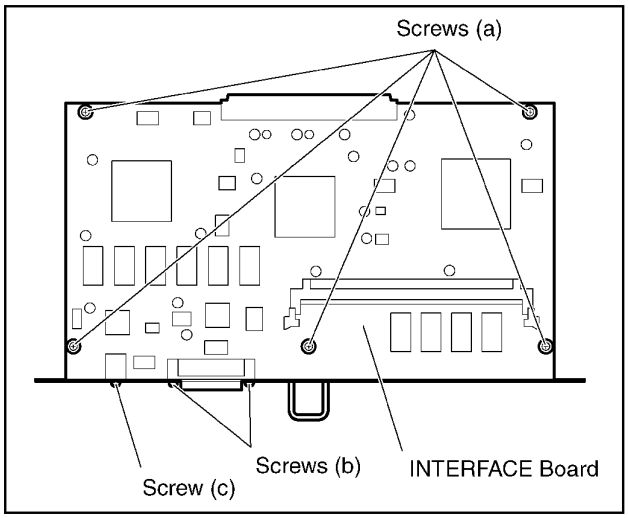
(Right Back View)

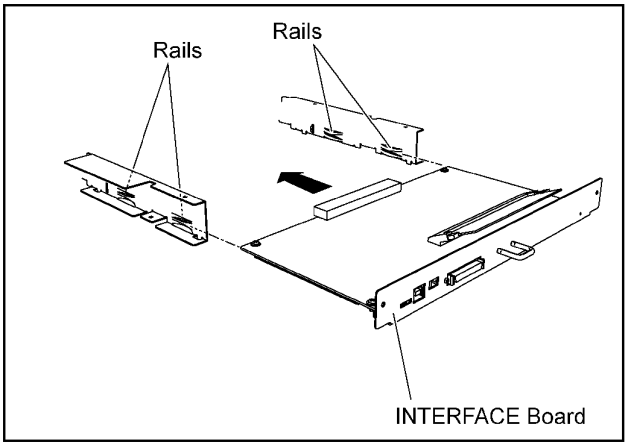
(3) Remove the 5 screws (a).

(4) Remove the 2 screws (b) and 1 screw (c) to release the INTERFACE Board from the board-support plate.

Reassembling Note:

Be sure to insert the INTERFACE Board along the rails on both sides.

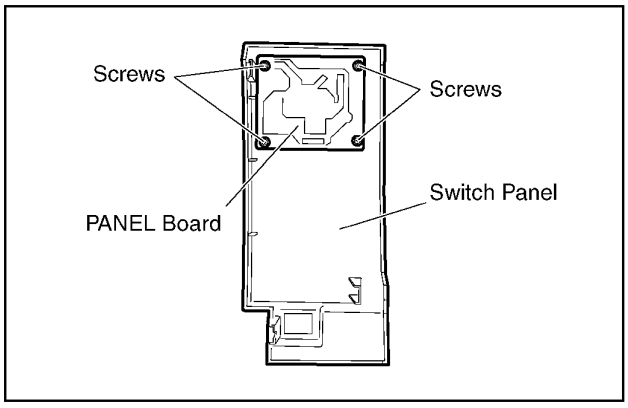




8.4.2. PANEL Board

(1) Remove the Switch Panel. (See 8.2.3.)

(2) Remove the 4 screws and PANEL Board.

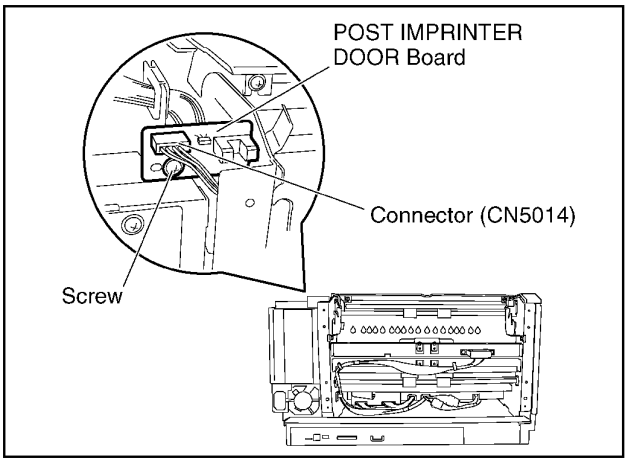


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8.4.3. POST IMPRINTER DOOR Board

(1) Remove the Top Cover (R). (See 8.2.4.)

(2) Remove a screw and disconnect the connector (CN5014) on the POST IMPRINTER DOOR Board.



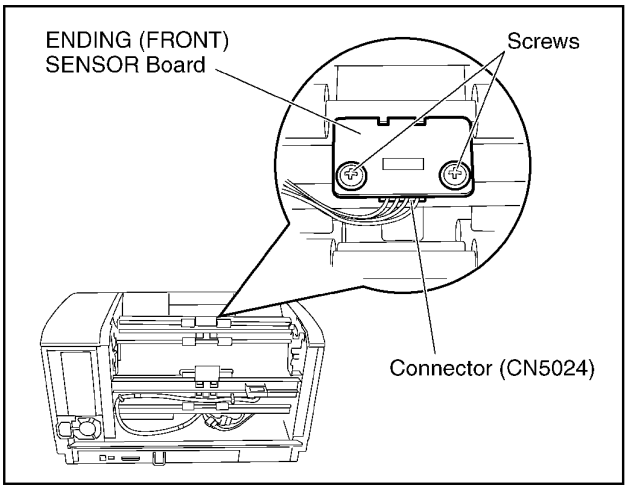
(Back Side View)

8.4.4. ENDING (FRONT) SENSOR Board

(1) Remove the Exit Cover. (See 8.2.5.)

(2) Remove the 2 screws.

(3) Disconnect the connector (CN5024) on the ENDING (FRONT) SENSOR Board.

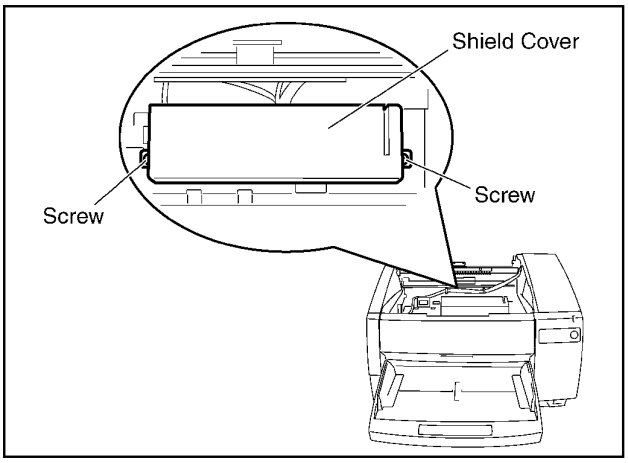


(Back Side View)

8.4.5. RELAY (UPPER) Board

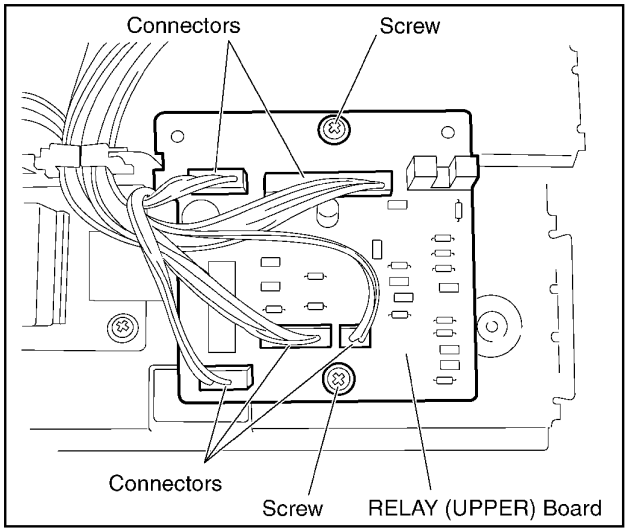
(1) Remove the Pre-imprinter Door. (See 8.2.6.)

(2) Remove the 2 screws and remove the Shield Cover.



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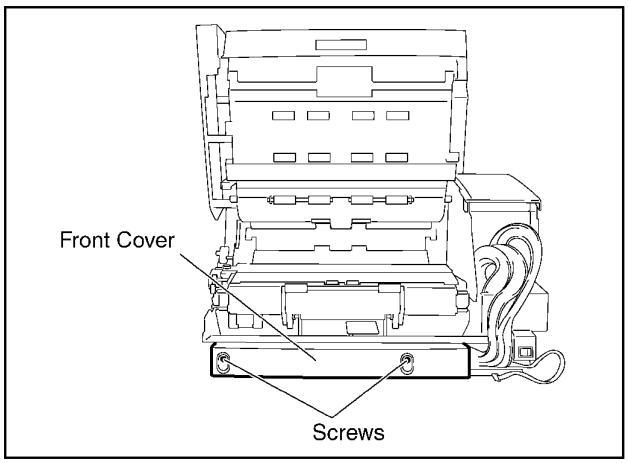
(3) Disconnect all connectors on the RELAY (UPPER) Board and remove the 2 screws.



8.4.6. CONTROL Board

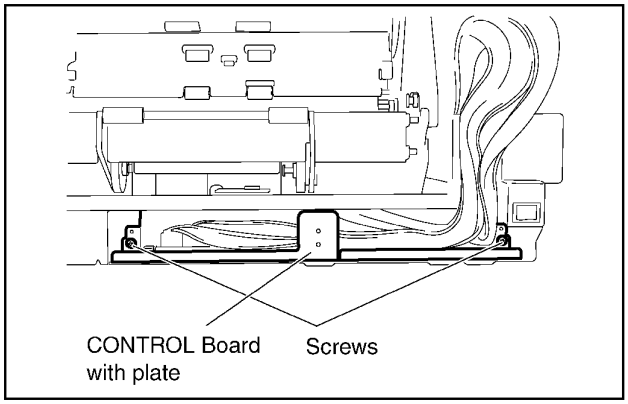
(1) Remove the Hopper Unit. (See 8.2.10.)

(2) Remove the 2 screws and Front Cover.



(Front Side View)

(3) Remove the 2 screws and pull the CONTROL Board with the plate forward.



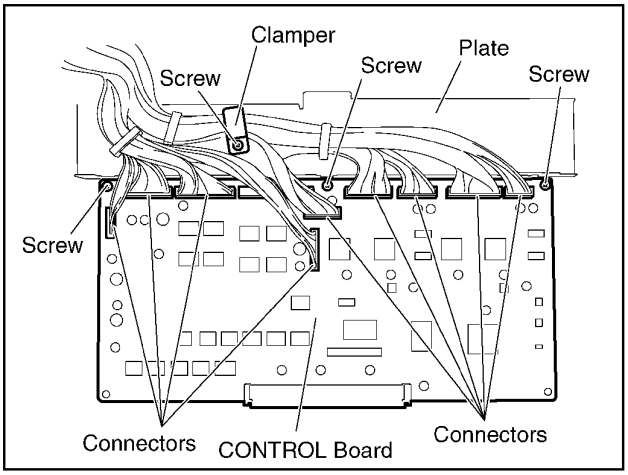
(Front Side View)

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(4) Remove the screw to release the clamper.

(5) Remove the all connectors on the CONTROL Board.

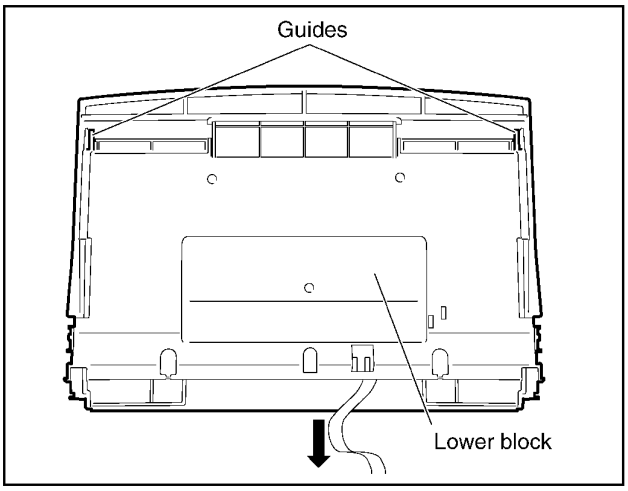
(6) Remove the 3 screws to release the CONTROL Board from the plate.



8.4.7. SIZE DETECTOR Board and Paper Sensor

(1) Remove the Hopper Unit. (See 8.2.10.)

(2) Release the 2 guides on both sides of the Hopper Unit to divide the upper block with the lower.



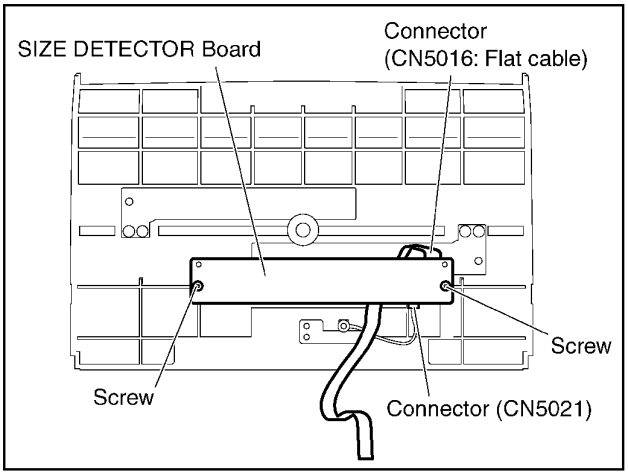
(Hopper Unit Back Side View)

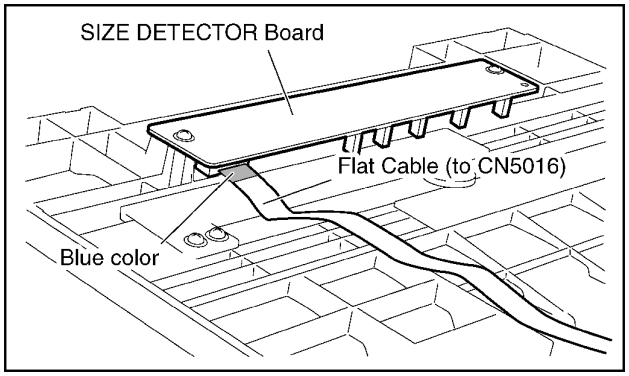
(3) Remove the 2 screws.

(4) Disconnect the 2 connectors (CN5016: Flat cable, CN5021) on the SIZE DETECTOR Board.

Reassembling Note:

The flat cable with blue color (CN5016) should be faced to the front side of the board.

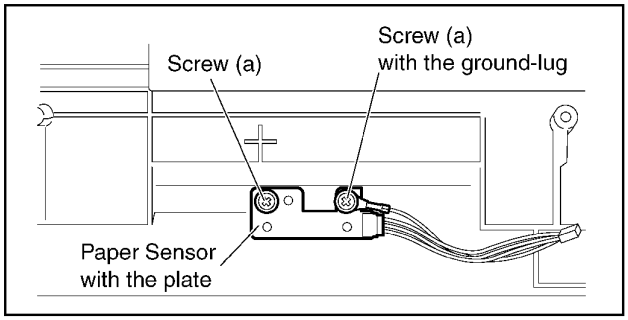


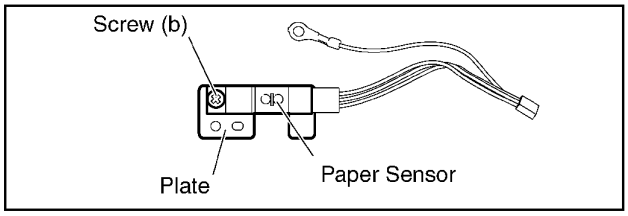


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(5) Remove the screw (a) and screw (a) with the ground-lug to release the Paper Sensor with the plate from the Hopper.

(6) Remove the screw (b) to release the Paper Sensor from the plate.

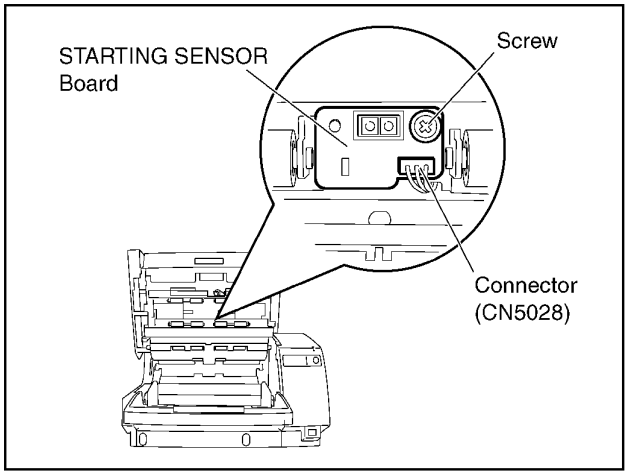




8.4.8. STARTING SENSOR Board

(1) Remove the Conveyor Upper 2. (See 8.3.2.)

(2) Remove the screw and disconnect connector (CN5028) on the STARTING SENSOR Board.



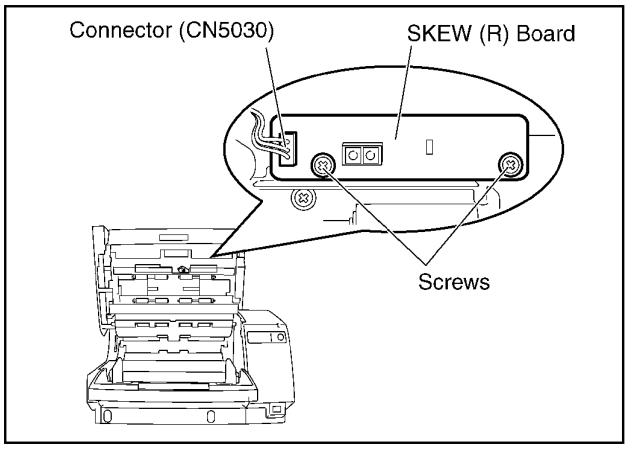
8.4.9. SKEW (R) Board

(1) Remove the Conveyor Upper 2. (See 8.3.2.)

(2) Remove the Paper Feed Roller Module. (See 8.3.4.)

(3) Remove the 2 screws.

(4) Disconnect the connector (CN5030) on the SKEW (R) Board.



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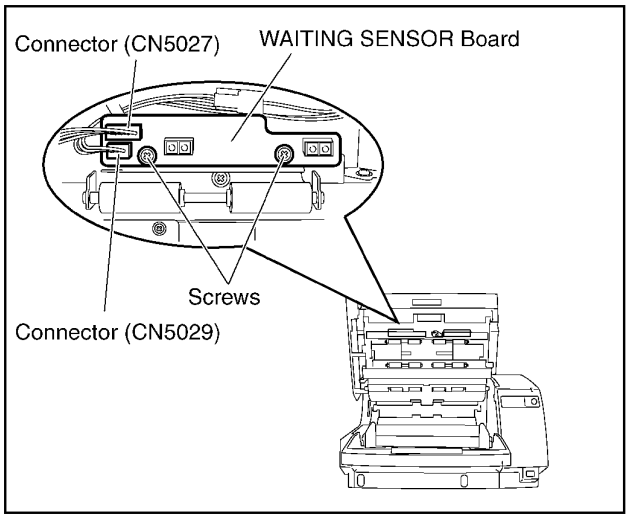
8.4.10. WAITING SENSOR Board

(1) Remove the Conveyor Upper 2. (See 8.3.2.)

(2) Remove the Paper Feed Roller Module. (See 8.3.4.)

(3) Remove the 2 screws.

(4) Disconnect the 2 connectors (CN5027, CN5029) on the WAITING SENSOR Board.

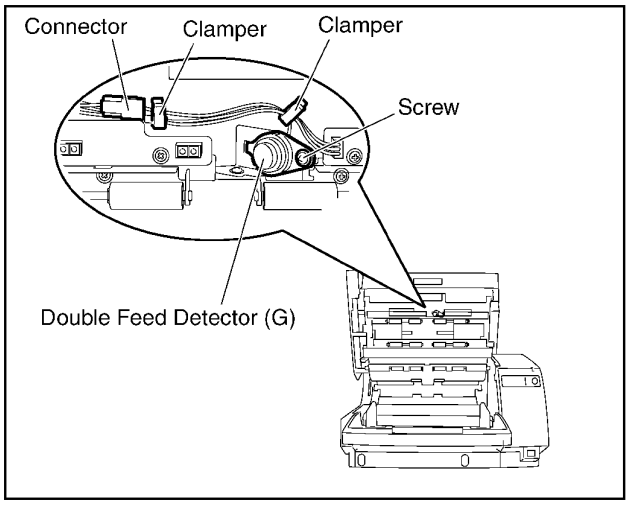


8.4.11. Double Feed Detector (G)

(1) Remove the Conveyor Upper 2. (See 8.3.2.)

(2) Remove the Paper Feed Roller Module. (See 8.3.4.)

(3) Remove the screw, and disconnect the relay connector to the Double Feed Detector (G) after releasing the connector wires from the wire clamper.

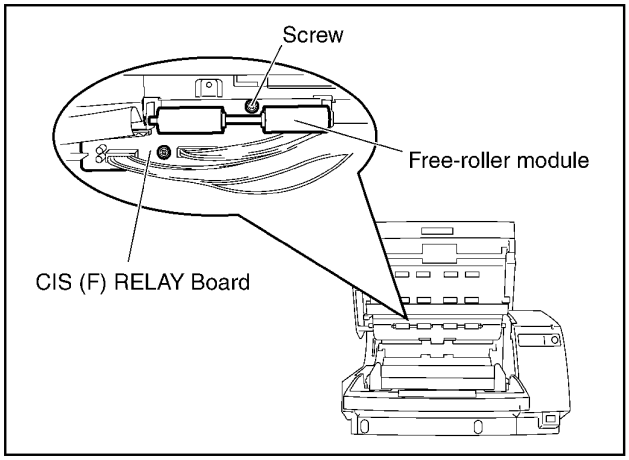


8.4.12. CIS (F) RELAY Board

(1) Remove the Conveyor Upper 3. (See 8.3.3.)

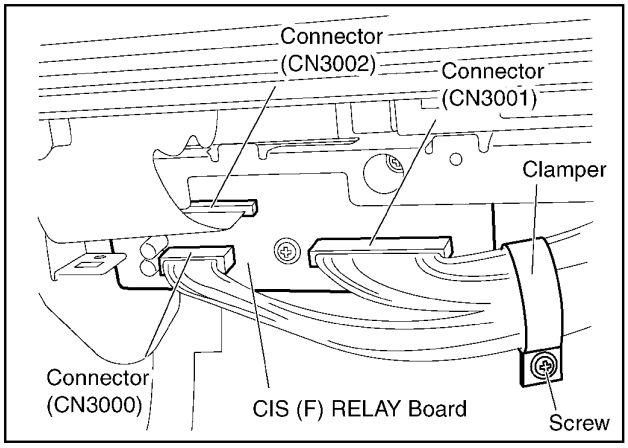
(2) Remove the Turn Conveyor (Inner). (See 8.3.18.)

(3) Remove the screw and Free-roller module.

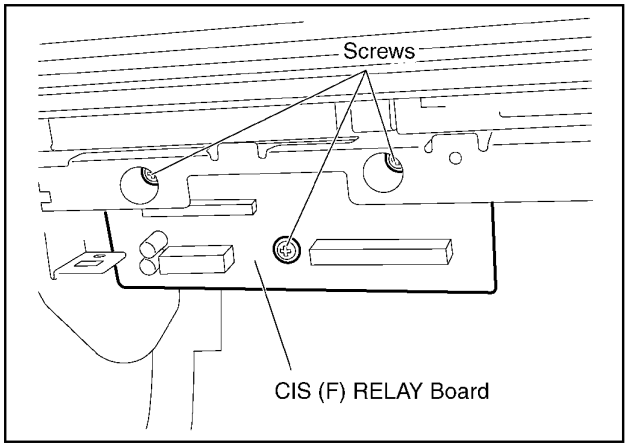


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(4) After removing the screw to release the clamper, disconnect 3 connectors (CN3000, CN3001, CN3002).



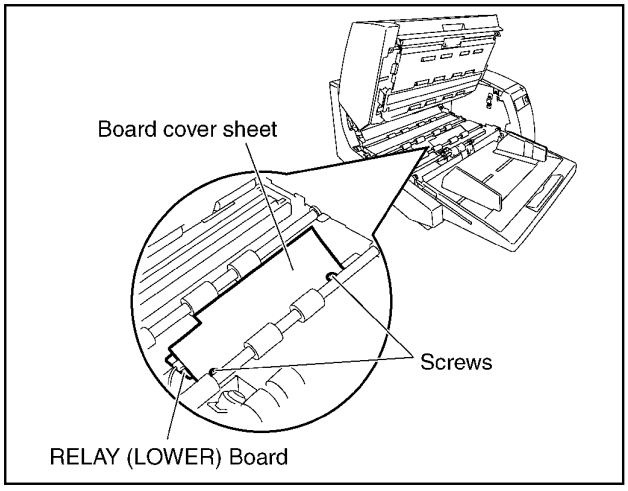
(5) Remove the 3 screws and take out the CIS (F) RELAY Board.



8.4.13. RELAY (LOWER) Board

(1) Remove the Conveyor Lower 2. (See 8.3.8.)

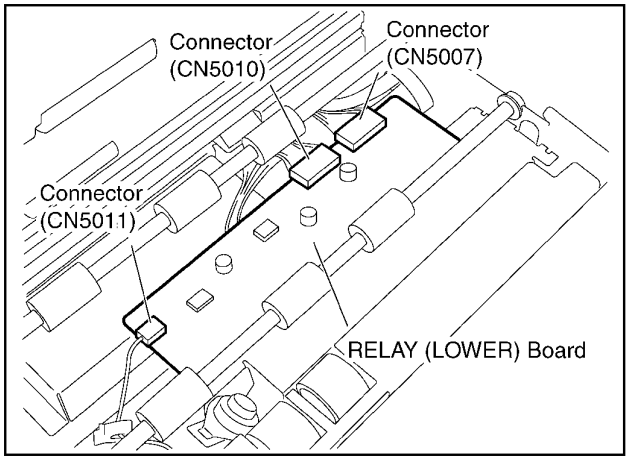
(2) Remove the 2 screws and board cover sheet.



(Left Front View)

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(3) Disconnect the 3 connectors (CN5007, CN5010, and CN5011) on the RELAY (LOWER) Board.



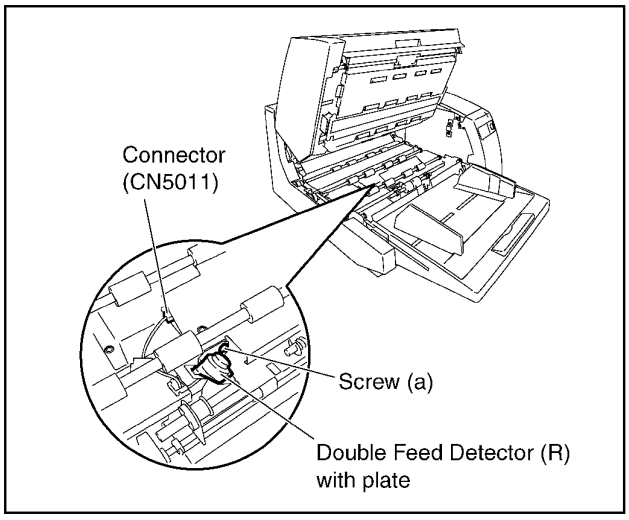
8.4.14. Double Feed Detector (R)

(1) Remove the Retard Roller. (See 8.3.6.)

(2) Remove the Conveyor Lower 2. (See 8.3.8.)

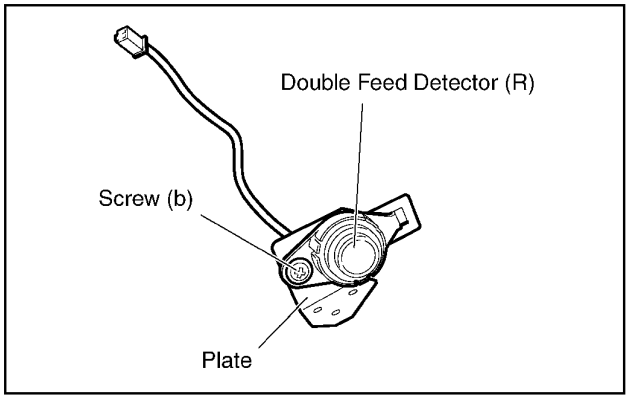
(3) Disconnect the connector to the CN5011 on the RELAY (LOWER) Board.

(4) Remove the screw (a) to release the Double Feed Detector (R) with plate from the scanner.



(Left Front View)

(5) Remove the screw (b) to release the Double Feed Detector (R) from the plate.

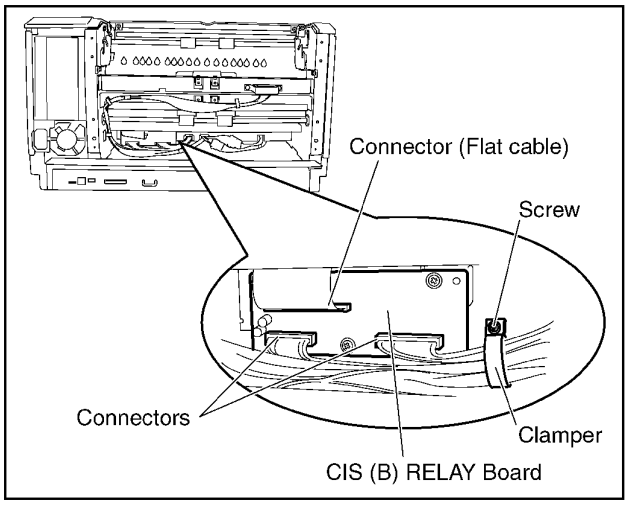


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8.4.15. CIS (B) RELAY Board

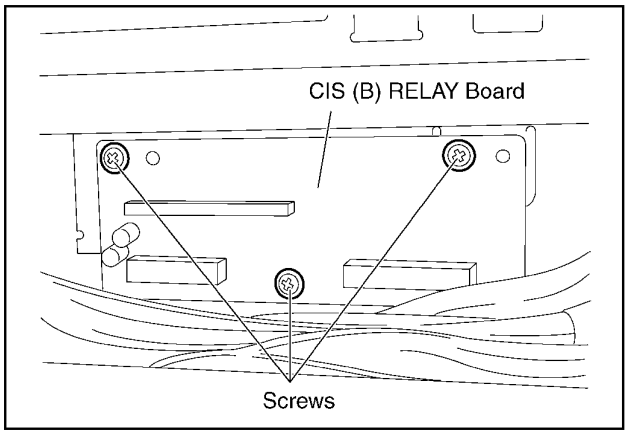
(1) Remove the Rear Cover with Post-imprinter Door. (See 8.2.1.)

(2) After removing the screw to release the clamper, disconnect 2 connectors and 1 connector (Flat cable) on the CIS (B) RELAY Board.



(Back Side View)

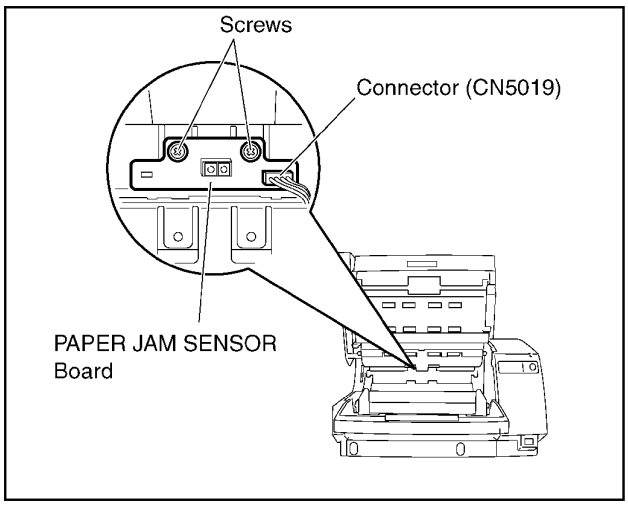
(3) Remove the 3 screws and pull out the CIS (B) RELAY Board backward.



8.4.16. PAPER JAM SENSOR Board

(1) Remove the Conveyor Rollers 1, 2, and 3. (See 8.3.16.)

(2) Remove the 2 screws and disconnect the connector (CN5019) on the PANEL JAM SENSOR Board.



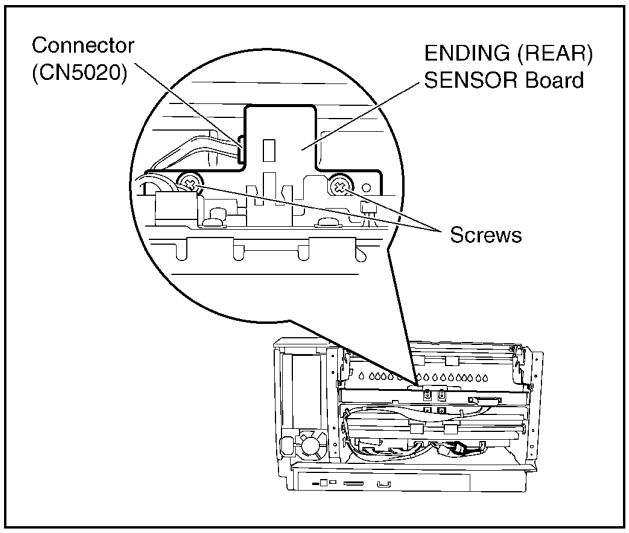
(Front Side View)

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8.4.17. ENDING (REAR) SENSOR Board

(1) Remove the Conveyor Rollers 1, 2, and 3. (See 8.3.16.)

(2) Remove the 2 screws and disconnect the connector (CN5020) on the ENDING (REAR) SENSOR Board.

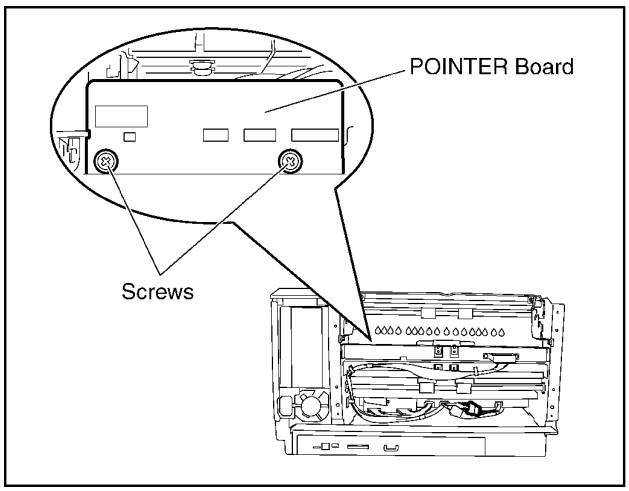


(Back Top View)

8.4.18. POINTER Board

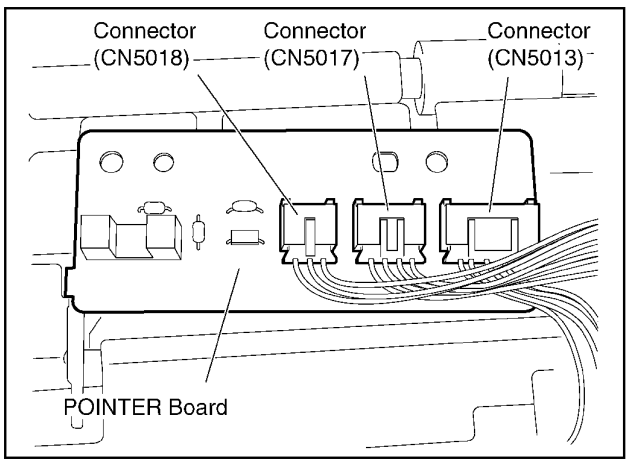
(1) Remove the Conveyor Rollers 1, 2, and 3. (See 8.3.16.)

(2) Remove the 2 screws.



(Back Top View)

(3) Disconnect the 3 connectors (CN5013, CN5017, CN5018) on the POINTER Board.



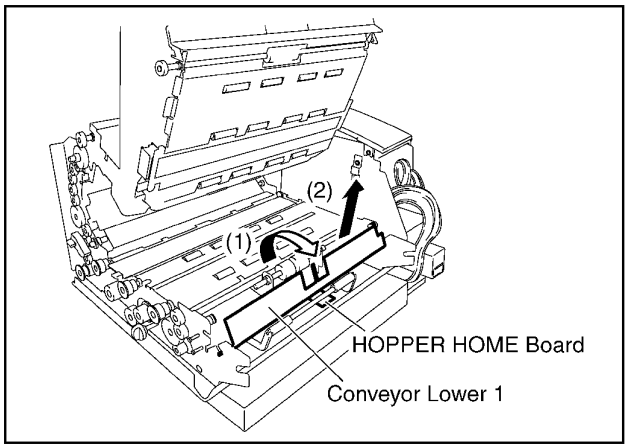
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8.4.19. HOPPER HOME Board

(1) Remove the CONTROL Board. (See 8.4.6.)

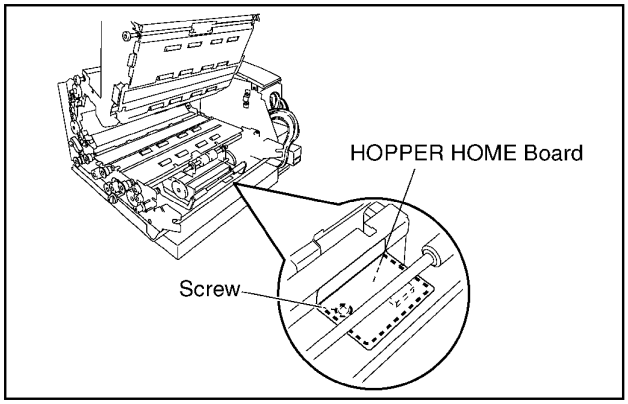
(2) Remove the RELAY (LOWER) Board. (See 8.4.13.)

(3) Remove the Conveyor Lower 1.



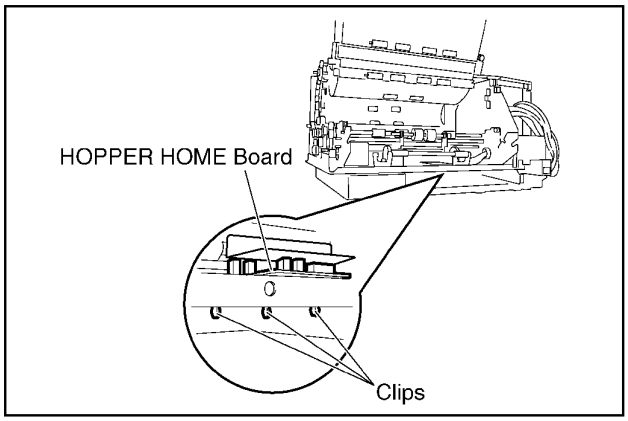
(Left Front View)

(4) Remove the screw on the HOPPER HOME Board.



(Left Front View)

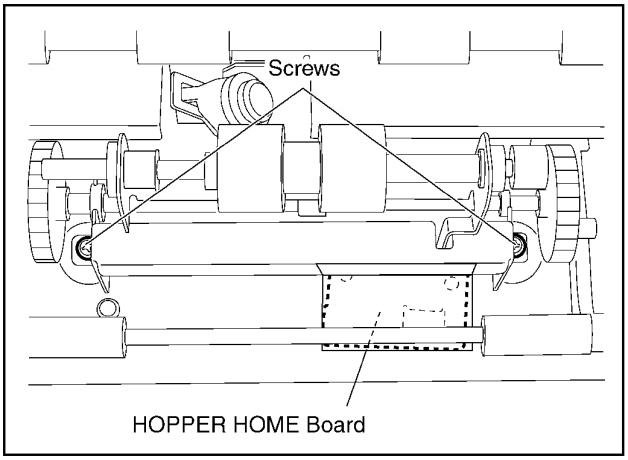
(5) Release the 3 clips on the HOPPER HOME Board.



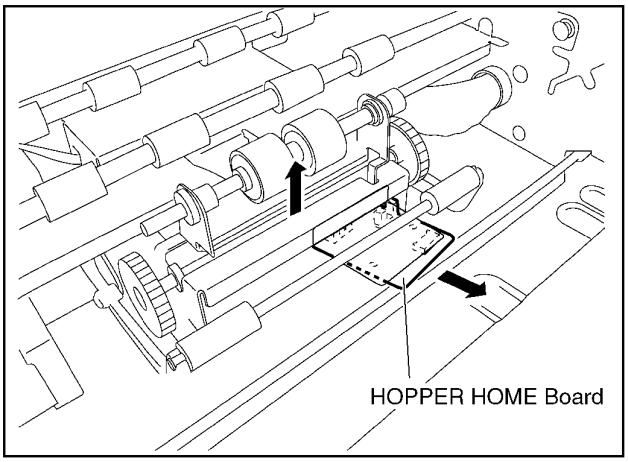
(Left Front View)

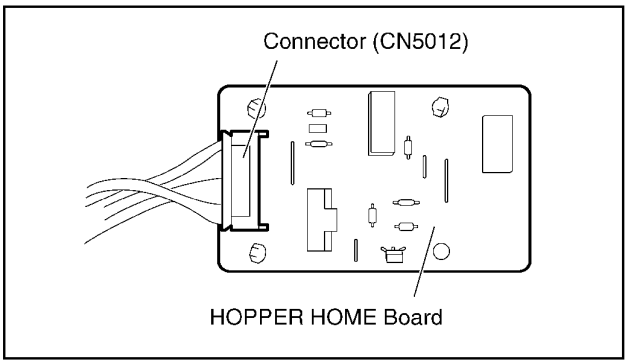
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(6) Loosen the 2 screws to keep a height to be required to pull out the HOPPER HOME Board.



(7) Pull out the HOPPER HOME Board forward and disconnect 1 connector (CN5012) to RELAY (LOWER) Board.

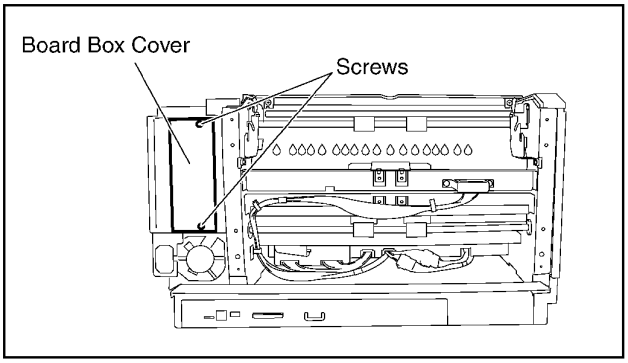




8.4.20. DRIVE Board

(1) Remove the Board Box Cover. (See 8.3.19.)

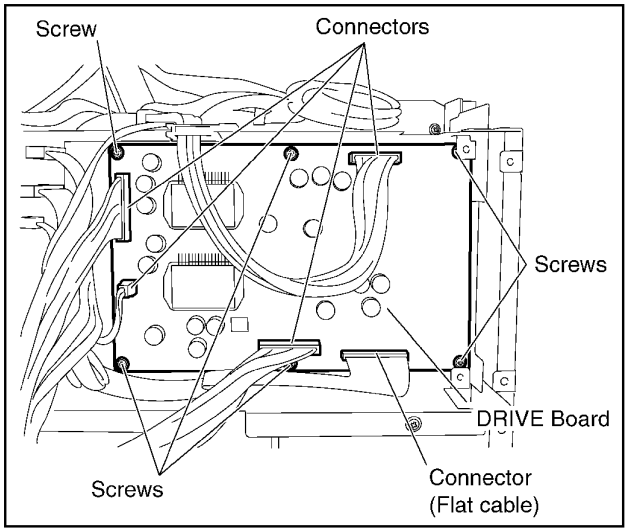
(2) Remove the 2 screws and Board Box Cover.



(Back Side View)

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(3) Disconnect all connectors (including 1 flat cable) and remove the 6 screws on the DRIVE Board.

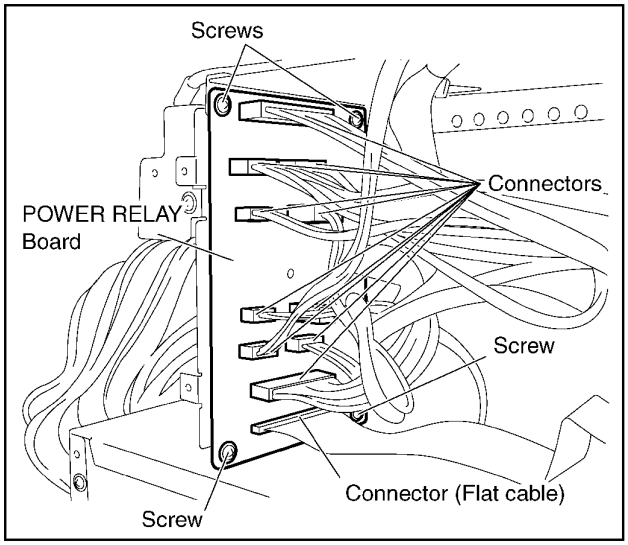


(Right Side View)

8.4.21. POWER RELAY Board

(1) Remove the DRIVE Board. (See 8.4.20.)

(2) Disconnect all connectors (including 1 flat cable) and remove the 4 screws on the POWER RELAY Board.

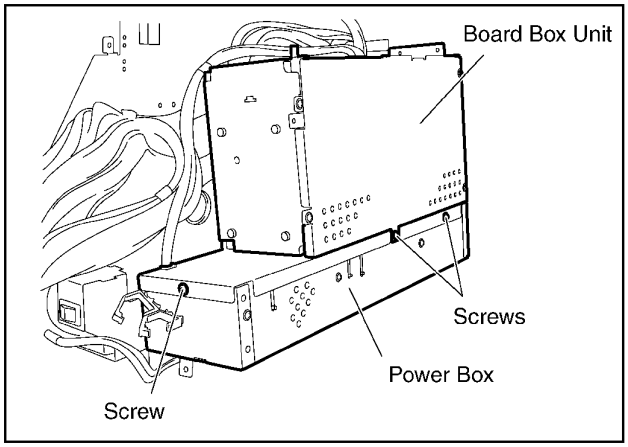


(Right Back View)

8.4.22. POWER Board & FAN

(1) Remove the Board Box Unit. (See 8.3.20.)

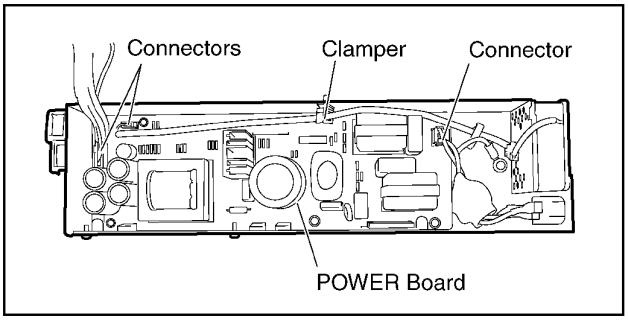
(2) Remove the 3 screws and separate the Power Box from the Board Box unit.



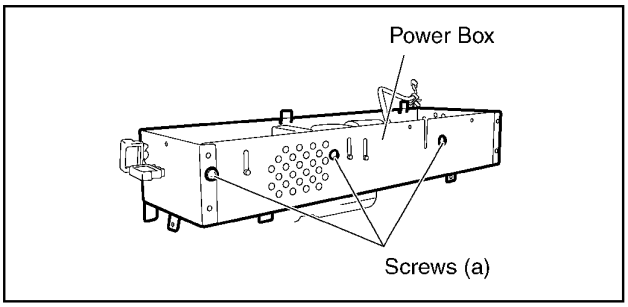
(Right Front View)

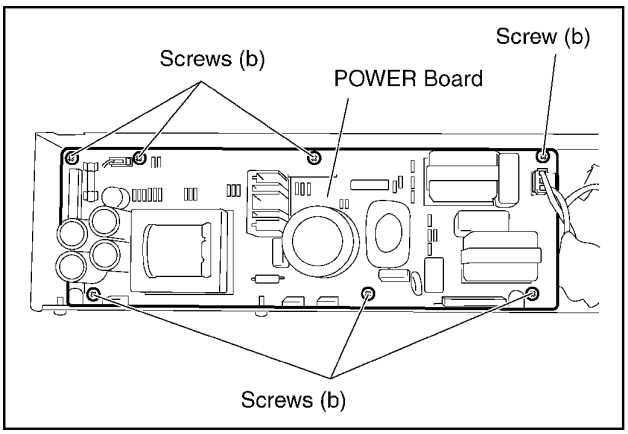
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(3) Disconnect all connectors on the POWER Board and remove the clamper on the side of the Power Box.

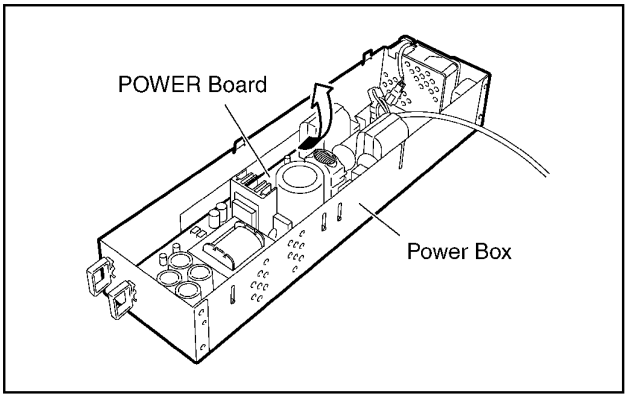


(4) Remove the 3 screws (a) on side of the Power Box remove the 7 screws (b) on the POWER Board.



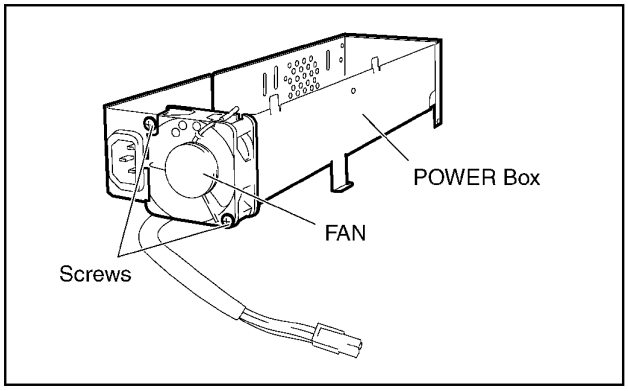


(5) Pull out the POWER Board in the direction of the arrow.



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(6) Remove the 2 screws and take out the FAN.



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9 SERVICE UTILITY & SELF TEST

9.1. Main menu indication for Service Utility

This section describes the functions of the service utility software, such as adjustments, diagnosis, configuration, and maintenance.

This utility software also includes a user utility function.

Executing “Service Utility.exe” (without installing the software to the PC except for ASPI Manager) will allow you to operate all the functions found in this service utility software.

Note:

- **This utility software is not included with the scanner.**
 Please call service or technical support to obtain the utility software.
- **This software should be used only by an authorized service technician.**
 Improper use of this software may cause damage to the scanner.

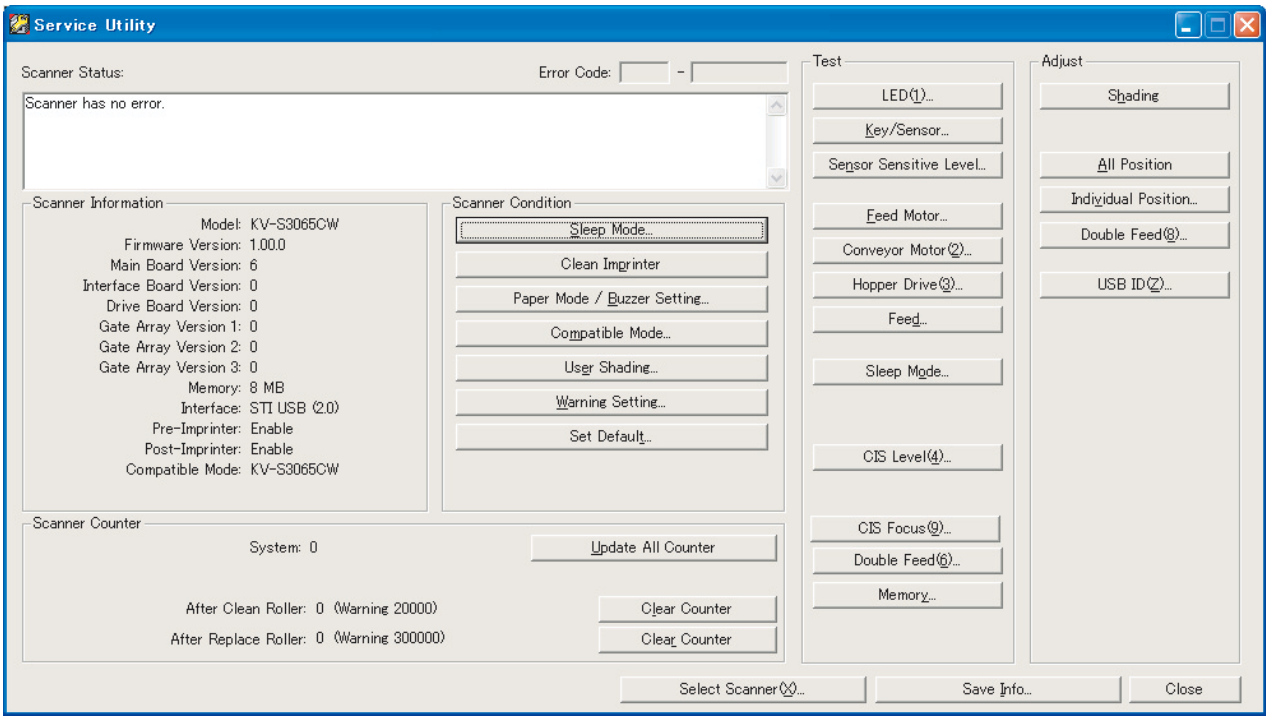


***Fig.9.1 Main Menu**

*Note:

- This is a main menu sample (Fig. 9.1) of the Service Utility software (Version 3.10).
- This software is the latest version at the time when this service manual is issued, but it is subject to change without notice.

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9.2. Function item list of Service Utility

Service Utility item list is as follows.

Note:

When two or more scanners are connected to PC, execute "Select Scanner" to define the scanner before evaluating.

The procedure is as follows.

1. **Click "Select Scanner" on the Main Menu.**
2. **Select the product number and interface of the scanner to evaluate.**

Item		Purpose	Remarks
Scanner Status		To indicate scanner status (Ready or Error or Warning)	(2)
Scanner information		To indicate scanner information about Model, firmware version, Gate Array version, board revision, additional memory size (status), and interface condition	(2)
Scanner Counter	Update All Counter	To update the values of System Counter, Cleaning roller Counter, and Replacing roller Counter	(1), (6)
	Clear Counter for cleaning roller	To clear Counter for cleaning roller to zero after cleaning roller	(1), (6)
	Clear Counter for replacing roller	To clear Counter for replacing roller to zero after replacing roller	(1), (6)
Scanner Condition	Sleep Mode	To set this mode to be enabled or disabled, and to set waiting time before entering to the sleep mode	(1)
	Clean Imprinter*1	To clean an ink jet head of imprinter.	(1), (6)
	Paper Mode / Buzzer Setting	To set scanning size (A4 or Letter) when the Document Guide is in A4 position, and to set Buzzer ON/OFF condition.	(1)
	Compatible Mode	To make this scanner operate as another scanner with this mode	(1), (3)
	User Shading	To execute shading correction at the user side, or to restore the shading data to the default (Factory-setting).	(4)
	Warning Setting	To set warning timing to clean roller and to replace roller	(3)
	Set Default	To set **"sleep mode setting"**, **"warning timing to clean and to replace roller"** to the default	(3)
Test	LED	To light LED on the front cover with colors changing periodically (Green→Orange→Red→Green→Orange.....)	(5)
	Key / Sensor	To do Key or Sensor ON/OFF test.	(5)
	Sensor Sensitive Level	To check sensitive level of each sensor (Waiting, Starting, Skew (R), Skew (L), Ending (Front), Ending (Rear), Paper Jam)	(5)
	Feed Motor	To check Paper Feed Motor's Rotating	(5)
	Conveyor Motor	To check Conveyor Motor's Rotating	(5)
	Hopper Drive	To check the hopper's Up/Down Mechanism	(5)
	Feed	To check paper feed mechanism.	(5)
	Sleep Mode	To check whether sleep mode function works properly	(5)
	CIS Level	To check maximum peak level after setting gain	(5)
	CIS Focus	To check whether CIS focus point is appropriate to scan documents and to adjust the focus, showing a CIS gray density level on the display.	(5)
	Double Feed	To check the Double Feed Detector(R)'s level (Response level) after setting the ultrasonic sending level and frequency of the Double Feed Detector(G)	(5)
	Memory	To execute memory R/W test.	(5)
Adjust	Shading	To execute shading correction	(4)
	All Position	To adjust scanning length, vertical, and horizontal positions for front and back sides, automatically	(4)
	Individual Position	1. To execute automatic length, vertical, or horizontal position adjustment for front and back sides, individually 2. To adjust scanning length, vertical, and horizontal positions for front and back sides manually.	(4)
	Double Feed	To correct the Double Feed detector's ultrasonic sending level and frequency automatically or manually.	(4)
Other (USB ID, Save Information)	USB ID.	To change USB ID. for the scanner, connected to PC.	(3)
	Save Information	To save scanner and PC information.	(1)

Note *1: This item is available only in case installing Imprinter (Option) to scanner KV-S3065CL/S3065CW Series.

Remarks

(1) Parameter setting by user

(2) Status indication

(3) Parameter setting by service person

(4) Adjustment

(5) Diag.

(6) Maintenance

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9.3. Operation

This section describes each operation (or status indication), according to the function item list shown in Sec.9.2.

9.3.1. Scanner Status

This function indicates scanner status, updating it every few seconds.

The status messages and its contents are as follows.

Classified Code	Status Message	Contents
-	Scanner has no error.	No error
U11, U12, U13, U14, U15, U16, U17	Jam occurred! Please open the door and remove the paper.	U11: Paper feed jam U12: Conveyor jam 1 (Paper did not reach the Starting Sensor.) U13: Conveyor jam 2 (Paper did not reach the Paper Jam Sensor.) U14: Conveyor jam 3 (Paper did not reach the Ending (Front) Sensor.) U15: Conveyor jam 4 (Paper did not reach the Ending (Rear) Sensor.) U16: Exit jam 1 (Paper did not go out of the Ending (Front) Sensor throughout.) U17: Exit jam 2 (Paper did not go out of the Ending (Rear) Sensor throughout.)
U18	Paper remains in the Scanner. Please open the door and remove the paper.	Document remains in scanner, or dust is attached around a sensor.
U20	Skew error occurred!	Skew error
U23	Double Feed occurred! Please open the door and remove the paper.	Double feed error
U30	Scanner Door is open! Please close the door.	Front Door is open.
U32	Scanner Door is open! Please close the door.	Post-imprinter Door is open.
U34	Scanner Door is open! Please close the door.	Pre-imprinter Door is open.
Fxx	System error occurred! Please consult with a service representative.	Service-person call level error occurred.
-	No Paper! Please set the paper.	No paper error
-	*** Warning *** The rollers need to be cleaned. Please clean the rollers. Please select Clear Counter button after cleaning rollers.	Warning for cleaning rollers.
-	*** Warning *** The rollers need to be replaced. Please replace the rollers. Please select Clear Counter button after replacing the rollers.	Warning for replacing rollers.
-	*** Warning *** Insufficient front light error occurred. The lamp and/or scanning sensor need to be replaced.	1. The lamp have reached its life expectancy. 2. Lamp drive circuit for the front does not work properly.
-	*** Warning *** Insufficient back light error occurred. The lamp and/or scanning sensor need to be replaced.	1. The lamp have reached its life expectancy. 2. Lamp drive circuit for the back does not work properly.
-	*** Warning *** Please clean the surface of the image sensor cover.	The surface of Image Sensor Cover is dirty.
-	Scanner is not connected!	Scanner is not connected to PC properly.

Fig.9.3.1 Scanner Status

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9.3.2. Error Code

Classified and Error codes are as follows.

And troubleshooting for this error message and codes is shown is Sec.10.2.

	Contents		Contents		Contents
U1-	Document	H1-		F1-	
U2-	Document	H2-		F2-	Hardware
U3-	Door	H3-		F3-	
U4-		H4-		F4-	
U5-		H5-		F5-	Sensor
U6-		H6-		F6-	Scanning
U7-		H7-		F7-	
U8-		H8-		F8-	
U9-		H9-		F9-	

Fig. 9.3.2 Classified Code Outline

ST1	Error contents
0x	Communication error
1x	Paper jam error
2x	Door open error
3x	Mechanical function error
4x	Paper sensor error
5x	Scanning error
6x	-
7x	-
8x	Hardware error
9x	Hardware error
Ax	-
Bx	-
Cx	-
Dx	-
Ex	-
Fx	-

Fig. 9.3.3 Error Code Outline

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Classified Code	Error Code				Contents
	ST1	ST2	ST3	ST4	
-	00	00	00	00	No error
-	0A	00	00	00	Stop by clicking "**STOP**"
-	0B	00	00	00	Stop by ADF stop-command
U11	11	00	00	00	Paper feed jam (Paper did not reach the Waiting Sensor.)
U12	12	00	00	00	Conveyor jam 1 (Paper did not reach the Starting Sensor.)
U13	13	00	00	00	Conveyor jam 2 (Paper did not reach the Paper Jam Sensor.)
U14	14	00	00	00	Conveyor jam 3 (Paper did not reach the Ending (Front) Sensor.)
U15	15	00	00	00	Conveyor jam 4 (Paper did not reach the Ending (Rear) Sensor.)
U16	16	00	00	00	Exit jam 1 (Paper did not go out of the Ending (Front) Sensor throughout.)
U17	17	00	00	00	Exit jam 2 (Paper did not go out of the Ending (Rear) Sensor throughout.)
U18	18	×	00	00	Document remains in scanner (ST2: Sensor Information)*1
U20	19	00	00	00	Skew error
U23	1C	00	×	00	Double feed error (ST3:0 Feed interval /:3 Ultrasonic)
U30	20	00	00	00	Front Door open
U32	22	00	00	00	Post-imprinter Door is open.
U34	24	00	00	00	Pre-imprinter Door is open.
F17	87	×	00	00	GA-IMG SD-RAM error (ST2:0 Access error /:1 SD-RAM error)
F18	88	00	00	00	GA-IMG Extension SD-RAM error
F31	95	00	00	00	Analog IC error
F32	96	00	00	00	SCSI IC error
F33	97	00	00	00	USB IC error
F34	98	00	00	00	EEPROM error
F36	9A	×	00	00	Front GA-SEN SD-RAM error (ST2:0 Access error /:1 SD-RAM error)
F37	9B	01	×	×	Over run error (ST3: Front Information, ST4: Back Information)
F38	9C	×	00	00	Back GA-SEN SD-RAM error (ST2:0 Access error /:1 SD-RAM error)
F40	30	00	00	00	Hopper error
F50	40	00	00	00	Waiting Sensor adjustment error
F51	41	00	00	00	Starting Sensor adjustment error
F52	42	00	00	00	Skew (R) Sensor adjustment error
F53	43	00	00	00	Skew (L) Sensor adjustment error
F54	44	00	00	00	Paper Jam Sensor adjustment error
F55	45	00	00	00	Ending (Front) Sensor adjustment error
F56	46	00	00	00	Ending (Rear) Sensor adjustment error
F60	50	00	00	00	Front side gain adjustment error
F61	51	00	00	00	Front side black level adjustment error
F62	52	00	00	00	Back side gain adjustment error
F63	53	00	00	00	Back side black level adjustment error
F80	60	00	00	00	Double Feed Detector adjustment error

Fig. 9.3.4 Error Code

Note: *1 ST2

Bit	Sensor Name
7	-
6	Waiting Sensor
5	Starting Sensor
4	Paper Jam Sensor
3	Ending (Front) Sensor
2	Ending (Rear) Sensor
1	Skew (L) Sensor
0	Skew (R) Sensor

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9.3.3. Scanner information

This function provides various types of scanner information to user or service-person. Main contents are as follows.

(1) Model
(2) Firmware Version
(3) Board and Gate Array (LSI) version
(4) Total memory size
(5) Interface information
(6) Pre-Imprinter and Post-imprinter conditions
(7) Compatible mode

9.3.4. Scanner Counter

Item	Operation	Default	Remarks
Update All Counter	1. Click "**Update All Counter**" to update counter's values. 2. Confirm the values of the "**System**", "**After Clean Roller**", and "**After Replace Roller**" are updated on the main menu (Service Utility).	-	
Clear Counter for cleaning roller	1. Click "**Clear Counter**" to clear the counter for cleaning roller. 2. Confirm the counter value is zero on the main menu (Service Utility).	-	After cleaning rollers (Paper Feed, Separation, and Retard Rollers), execute this item.
Clear Counter for replacing roller	1. Click "**Clear Counter**" to clear the counter for replacing roller. 2. Confirm the counter value is zero on the main menu (Service Utility).	-	After replacing rollers (Paper Feed, Separation, and Retard Rollers), execute this item.

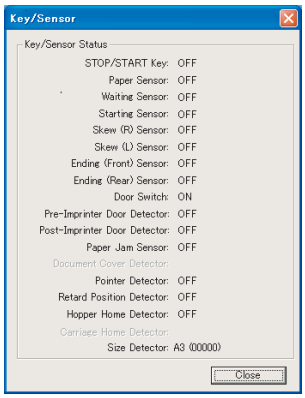
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9.3.5. Scanner Condition

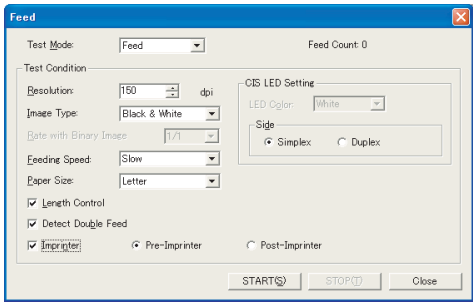
Item	Operation	Default	Remarks
Sleep Mode	1. Click "**Sleep Mode**" on the main menu (Service Utility). 2. Set "**Sleep Mode**" to enable or disable by checking check-box. 3. Set "**Waiting time**" (minutes) to change sleep mode. 4. Click "**OK**" to renew the setting.	Enable 15 minutes	
Clean Imprinter	1. Click "**Clean Imprinter**" on the main menu to clean an ink jet head to print.	-	This item is available only in case of installing Imprinter (Option) to scanner.
Paper Mode / Buzzer Setting	1. Click "**Paper Mode / Buzzer Setting**" on the main menu. 2. Set "**Paper Mode (A4 or Letter)**" and/or "**Buzzer Setting (ON or OFF)**" on "**Paper Mode / Buzzer Setting**" dialog box. 3. Click "**OK**" to renew the setting.		
Compatible Mode	1. Click "**Compatible Mode**" on the main menu. 2. Set a model number to operate the scanner as the emulation mode on "**Compatible Mode**" dialog box. 3. Click "**OK**" to renew the setting.		
User Shading	1. Click "**User Shading**" on the main menu. 2. Push "**Start Shading**" or "**Restore Default**" on "**User Shading**" dialog box. **Note:** a. **When selecting "Restore Default", the factory-setting data will be overwritten in stead of the current shading data.** b. **The following procedures "3" or more are available only for selecting "Start Shading"** 3. Clean the conveyor, rollers, Image Sensor Covers according to the message on the display. And click "**OK**". 4. Switch Reference Plates to white according to the message on the display. And click "**OK**". 5. Set the accessory Shading Paper or Shading Paper (Part No.: See 14.7.) on the Hopper Tray in the following orientation. (i) In case of KV-S3065CW → Landscape orientation (ii) In case of KV-S3065CL → Portrait orientation And click "**OK**". 6. Scan the Shading Paper. 7. Switch the Reference Plates to black according to the message on the display. And click "**OK**". 8. Click "**OK**" to get back to the main menu.	-	1. Before executing the shading function, be sure to clean Image Sensor Covers, rollers, and conveyors related to convey documents. 2. Do not stop the shading execution on its way and do not open any doors.
Warning Setting	1. Click "**Warning Setting**" on the main menu. 2. Change the parameter on "**Warning Setting**" dialog box. 3. Click "**OK**" to renew the setting.	Clean: 20000 Replace: 300000	
Set Default	1. Click "**Set Default**" on the main menu. 2. Click "**Set Default**" on "**Set Default**" dialog box to set "**Sleep Mode setting**", "**Clean Roller Timing**", and "**Replace Roller Timing**" to be in default. 3. Click "**Close**" to get back the main menu.	-	

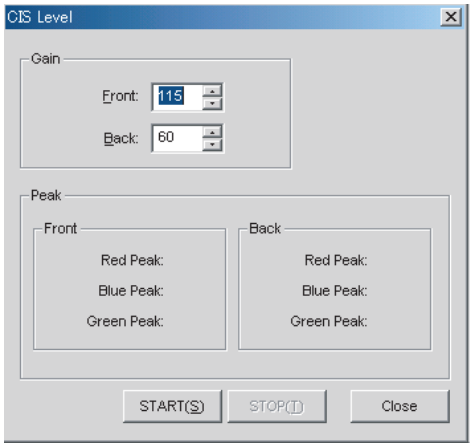
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9.3.6. Test

Item	Operation	Default	Remarks
LED	1. Click "**LED**" on the main menu. 2. Click "**START**" on LED dialog box to start LED Test continuously until clicking "**STOP**". 3. Click "**Close**" to get back the main menu.	-	Changing periodically (Green→Orange→Red→Green.....)
Key / Sensor	1. Click "**Key / Sensor**" on the main menu. 2. Check key and sensor status on the **Key / Sensor** dialog box.  3. Click "**Close**" to get back to the main menu.	-	
Sensor Sensitive Level	1. Click "**Sensor Sensitive Level**" on the main menu. 2. Click each sensor sensitive level (Offset, Slice) on **Sensor Sensitive Level** dialog box. 3. Click "**Close**" to get back to the main menu.	-	Good result Offset: less than 255 Slice: 7
Feed Motor	1. Click "**Feed Motor**" on the main menu. 2. Click "**START**" on "**Feed Motor**" dialog box to start to rotate Paper Feed Motor continuously until clicking "**STOP**". 3. Click "**Close**" to get back to the main menu.	-	
Conveyor Motor	1. Click "**Conveyor Motor**" on the main menu. 2. Click "**START**" on "**Conveyor Motor**" dialog box to start to rotate Conveyor Motor continuously until clicking "**STOP**". 3. Click "**Close**" to get back to the main menu.	-	
Hopper Drive	1. Click "**Hopper Drive**" on the main menu. 2. Click "**START**" on "**Hopper Drive**" dialog box to start to execute the hopper's Up/Down continuously until clicking "**STOP**". 3. Click "**Close**" to get back to the main menu.	-	

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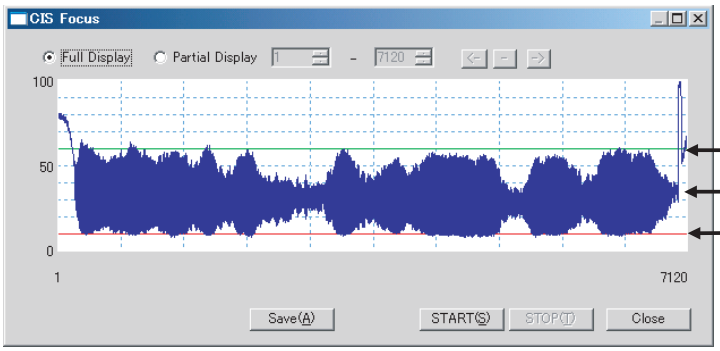
<table>
<tr><th>Item</th><th>Operation</th><th>Default</th><th>Remarks</th></tr>
<tr><td>Feed</td><td>1. Set documents on the Hopper Tray.
2. Click “Feed” on the main menu.


3. Set “Test Mode” and “Test Condition” depending on each scanning condition.
Note:
Operation “Imprinter” is available only when the optional Imprinter is installed.
4. Click “START” on “Feed” dialog box to start feeding documents.
5. Click “STOP” on “Feed” dialog box to stop the test.
6. Click “Close” to get back to the main menu.</td><td>-</td><td></td></tr>
<tr><td>Sleep Mode</td><td>1. Click “Sleep Mode” on the main menu.
2. Click “START” on “Sleep Mode” dialog box to enter into the sleep mode.
3. Click “STOP” to get out of the sleep mode.
4. Click “Close” to get back to the main menu.</td><td>-</td><td></td></tr>
<tr><td>CIS Level</td><td>1. Click “CIS Level” on the main menu.
2. Set “Gain” of front and back sides on the “CIS Level” dialog box.
3. Click “START” on the “CIS Level” dialog box to start CIS Level Test.
4. Check whether the peak level is within the specification. (See Remarks.)
5. Click “STOP” to finish this test.
6. Click “Close” to get back to the main menu.

</td><td>-</td><td><table><tr><td>Gain</td><td>Good result (Peak Level)</td></tr><tr><td>Front: 0
Back: 0</td><td>400 or more</td></tr></table></td></tr>
</table>

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Item	Operation	Default	Remarks
CIS Focus	1. Pull the Front Door Release to open the Front Door. 2. Set the Focus Chart (Part No.: See 14.7.) on the Image Sensor Cover (B) (Reference Plate (F)'s position) as shown in Fig.7.2.2-2. 3. Close the Front Door slowly until it clicks into place. 4. Click "**CIS Focus**" on the main menu. 5. Click "**START**" on the CIS Focus dialog box to execute the CIS Focus test. 6. When finishing confirming a CIS gray density level on the display, click "**STOP**" on the CIS Focus dialog box. 7. Click "**Close**" to get back the main menu. **** When CIS gray level is out of specification as the result of this adjustment, re-try this item after executing "User Shading". And if the problem still exists, see Note 2: "How to adjust CIS Focus".**	-	Good result **See Note 1.**
Double Feed	1. Click "**Double Feed**" for "**Test**" item on the main menu. 2. Set "**Send Level**" and "**Frequency**" on "**Double Feed Sensor**" dialog box. 3. Click "**START**" on the "**Double Feed Sensor**" dialog box to start the double feed sensor's sensitivity test. 4. Check whether the peak level is within the specification (See Remarks.) 5. Click "**STOP**" to finish this test. 6. Click "**Close**" to get back to the main menu.	-	Send Level: Level: 180 Frequency: 220 — Good result (Peak Level): 400 or more
Memory	1. Click "**Memory**" on the main menu. 2. Click "**START**" on "**Memory**" dialog box to start Memory Read / Write Test. 3. Check the result. 4. Click "**Close**" to get back to the main menu.	-	Regarding to Error Code, refer to Sec.9.3.2.

Note 1: Fig.9.3.6-1



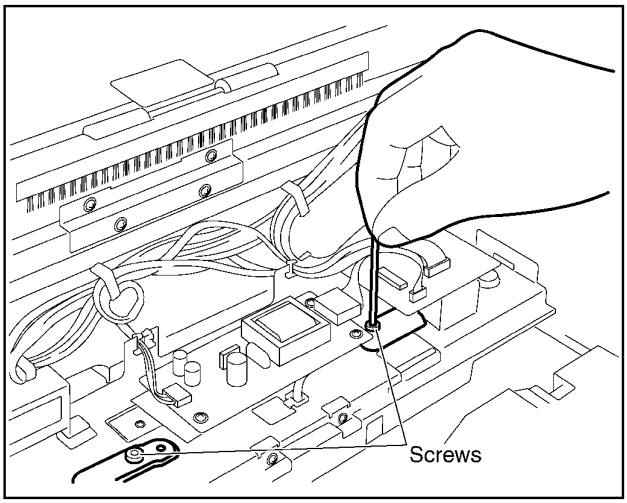
Adjust the waveform so that amplitude on both sides is over the Upper Base (Green) and Lower Base lines (Red), keeping balance on both sides.

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Note 2: How to adjust CIS Focus

1. **After getting back to the main menu, finish this Service Utility.**
2. **Turn off the scanner.**
3. **Remove the Shield Cover that covers RELAY (UPPER) Board.**

 → See 8.4.5- (1), (2).
4. **Turn on the scanner.**
5. **Re-start the Service Utility and execute CIS Focus test again according to the above procedure.**
6. **Monitoring the indication on PC, turn the screws on both sides to adjust the waveform so as to be in spec. as shown on the above Remarks.**



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9.3.7. Adjust

Item	Operation	Default	Remarks
Shading	1. Click "**Shading**" on the main menu to execute shading correction. 2. Confirm the message "**The data of User Shading will be also overwritten.**" on the display. And if the message is acceptable, click "**OK**". 3. Clean the conveyor, rollers, Image Sensor Covers according the message on the display. And click "**OK**". 4. Switch Reference Plates to white according to the message on the display. And click "**OK**". 5. Set Shading Paper (Part No.: See 14.7.) on the Hopper Tray in the following orientation. (i) In case of KV-S3065CW → Landscape orientation (ii) In case of KV-S3065CL → Portrait orientation And click "**OK**". 6. Scan the Shading Paper. 7. Switch the Reference Plates to black according to the message on the display. And click "**OK**". 8. Click "**OK**" to get back to the main menu.	-	Do not stop the shading execution on its way and do not open any doors.
All Position	1. Set 2pcs of test chart A (Part No.: See 14.7.) on the Hopper Tray in the portrait orientation. 2. Click "**All Position**" on the main menu to execute scanning position & length adjustment. 3. Check the result. 4. Click "**OK**" to get back to the main menu.	-	Set 2 pcs of test chart A in order. 1st page: Front side 2nd page: Back side
Individual Position	1. Adjust Automatically a. Set test chart A (Part No.: See 14.7.) on the Hopper Tray in the portrait orientation. b. Click "**Individual Position**" on the main menu. c. Click one of 5 automatic adjustment menu on "**Individual Position**" dialog box to execute adjustment. d. Check the result. e. Click "**OK**" to finish this adjustment. f. Click "**OK**" to get back to the main menu. 2. Adjust Manually a. Click "**Individual Position**" on the main menu. b. Change the parameter (mm, %) on the "**Individual Position**" dialog box, as required. (Refer to Remarks.) c. Click "**OK**" to renew the setting, and to get back to the main menu.	-	1. Adjust Automatically 5 automatic adjustment a. Adjust Length b. Adjust Front V. Position c. Adjust Front H. Position d. Adjust Back V. Position e. Adjust Back H. Position 2. Adjust Manually (Vertical Position) +: Increasing the number makes the document scanning position shifted downward (Horizontal Position) +: Increasing the number makes the document scanning position shifted to the right. (Length) +: Increasing a number makes the scanning document length longer. **Note:** **If the appropriate scanning position can not be obtained by any of the manual adjustments, check CIS installation.**

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Item	Operation	Default	Remarks
Double Feed	1. Adjust Automatically a. Set Shading Paper (Part No.: See 14.7.) on the Hopper Tray in the portrait orientation. b. Click "**Double Feed**" for "**Adjust**" item on the main menu. c. Click "**Adjust Automatically**" on "**Double Feed Sensor**" dialog box to adjust the double-feed sensitivity. d. Check the result. e. Click "**OK**" to finish this adjustment. f. Click "**OK**" on the "**Double Feed Sensor**" dialog box to get back to the main menu. 2. Adjust Manually a. Click "**Double Feed**" for "**Adjust**" item on the main menu. b. Change parameters (Send Level, Frequency) as required on the "**Double Feed Sensor**" dialog box. c. Click "**OK**" on the "**Double Feed Sensor**" dialog box to get back to the main menu.	-	

9.3.8. Other (USB ID, Save Information)

(1) USB ID.

After clicking "**USB ID**" on the main menu, click "Set" on "**USB ID**" dialog box to store a new serial number for a new CONTROL Board replaced. (This setting is only available for the new CONTROL Board.)

(2) Save Information

This function saves scanner and PC information (Counter values, Adjustment values, CPU, OS, and others) as log file, clicking "**Save file**" on the main menu.

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9.4. Scanner Self-test

Without connecting scanner to PC, the following contents can be done as the scanner self-test.

The following test is mainly available for mechanical test after replacing or reassembling rollers (Drive Roller, Conveyor Roller) and other mechanical parts related to feed documents.

Note:[*7]

Regarding each LED's (Front, Back) position in the following figure, see Sec.3.

Test Item	Operation	LED status		Remarks
		[*7] Front	[*7] Back ●: OFF ○: ON	
1. Paper Feed Motor's rotating	1. While pushing "**STOP/START key**" on the front cover, turn on the scanner.	-	-	
	2. Release the key at the timing when the front LED status changes from blinking to ON.	Orange (Blinking) →Green	OFF→Blinking	
	3. Push the "**STOP/START key**" once to enter into the test selection mode.	Green	Blinking→Count	
	4. Push the "**STOP/START key**" once at the timing when the back panel LED's status is 1 (h)[*1]. **Note:** **This operation allows the scanner to select the Feed Motor's rotating test.**	Green	*1 ● ● ● ○	
	5. Push the "**STOP/START key**" once to start the test.	Green	● ● ● ○	
	6. Push the "**STOP/START key**" once to stop the test.	Green	● ● ● ○	
	7. Turn off the scanner to finish the test.	-	-	
2. Conveyor Motor's rotating	1. While pushing "**STOP/START key**" on the front cover, turn on the scanner.	-	-	
	2. Release the key at the timing when the front LED status changes from blinking to ON.	Orange (Blinking) →Green	OFF→Blinking	
	3. Push the "**STOP/START key**" once to enter into the test selection mode.	Green	Blinking→Count	
	4. Push the "**STOP/START key**" once at the timing when the back panel LED's status is 2 (h)[*2]. **Note:** **This operation allows the scanner to select the Conveyor Motor's rotating test.**	Green	*2 ● ● ○ ●	
	5. Push the "**STOP/START key**" once to start the test.	Green	● ● ○ ●	
	6. Push the "**STOP/START key**" once to stop the test.	Green	● ● ○ ●	
	7. Turn off the scanner to finish the test.	-	-	
3. Hopper Drive	1. While pushing "**STOP/START key**" on the front cover, turn on the scanner.	-	-	
	2. Release the key at the timing when the front LED status changes from blinking to ON.	Orange (Blinking) →Green	OFF→Blinking	
	3. Push the "**STOP/START key**" once to enter into the test selection mode.	Green	Blinking→Count	
	4. Push the "**STOP/START key**" once at the timing when the back panel LED's status is 4 (h)[*4]. **Note:** **This operation allows the scanner to select the Hopper Drive test.**	Green	*4 ● ○ ● ●	
	5. Push the "**STOP/START key**" once to start the test.	Green	● ○ ● ●	
	6. Push the "**STOP/START key**" once to stop the test.	Green	● ○ ● ●	
	7. Turn off the scanner to finish the test.	-	-	

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Test Item	Operation	LED status		Remarks
		*7 Front	*7 Back ●: OFF ○: ON	
4. Feed	1. While pushing "**STOP/START key**" on the front cover, turn on the scanner.	-	-	
	2. Release the key at the timing when the front LED status changes from blinking to ON.	Orange (Blinking) → Green	OFF → Blinking	
	3. Set documents on the Hopper Tray.	Green	Blinking	
	4. Push the "**STOP/START key**" once to enter into the test selection mode.	Green	Blinking → Count	
	5. Push the "**STOP/START key**" once at the timing when the back panel LED's status is 5 (h)*5. **Note:** **This operation allows the scanner to select the Feed test.**	Green	*5 ● ○ ● ○	
	6. Push the "**STOP/START key**" once to start the test.	Green	● ○ ● ○	
	7. Turn off the scanner to finish the test.	-	-	
5. Shading	1. While pushing "**STOP/START key**" on the front cover, turn on the scanner.	-	-	1. Before executing the shading function, be sure to clean Image Sensor Covers, rollers, and conveyors related to convey documents. 2. Do not stop the shading execution on its way. And do not open any doors except for the procedures "7" and "9" in the "Operation" Column of this test item.
	2. Release the key at the timing when the front LED status changes from blinking to ON.	Orange (Blinking) → Green	OFF → Blinking	
	3. Set a Shading Paper (Part No.: See 14.7.) on the Hopper Tray in the following orientation. (i) In case of KV-S3065CW → Landscape orientation (ii) In case of KV-S3065CL → Portrait orientation	Green	Blinking	
	4. Push the "**STOP/START key**" once to enter into the test selection mode.	Green	Blinking → Count	
	5. Push the "**STOP/START key**" once at the timing when the back panel LED's status is 6 (h)*6. **Note:** **This operation allows the scanner to select the Shading test.**	Green	*6 ● ○ ○ ●	
	6. Push the "**STOP/START key**" for 5 seconds or more to enter into the shading test.	Green	● ○ ○ ●	
	7. After confirming the front cover LED is blinking with orange and green alternately, open the Front Door and switch the two Reference Plates (F, B) to the white side. And close the Front Door.	Blinking with orange and green alternately	● ○ ○ ●	
	8. Paper feeding starts to execute the shading.	Blinking with orange (during shading)	● ○ ○ ●	
	9. After confirming the front cover LED is blinking with orange and red alternately, open the Front Door again and switch the two Reference Plates (F, B) to the black side. And close the Front Door.	Blinking with orange and red alternately → Blinking with orange (during shading)	● ○ ○ ●	
	10. After confirming the front LED is green, turn off the scanner to finish the test.	Green → OFF	-	

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10 TROUBLESHOOTING

10.1. Troubleshooting-1 (with no error message on PC)

Phenomenon	Possible Cause	Check Point	Remarks
No power	1. Power circuit does not work, properly.	1. Check Power Switch's ON/OFF mechanical condition. 2. Check the following connection and soldering condition. a. AC Inlet to CN801 (POWER Board) b. CN802 (POWER Board) to CN4003 (DRIVE Board) c. CN4005 (DRIVE Board) to CN5001 (POWER RELAY Board) d. CN4007 (DRIVE Board) to CN1010 (CONTROL Board) 3. Check the connection between the POWER Board and FAN. 4. Check whether the Fuse (F801) or Fuse (F841) is not broken. 5. Check the following parts' soldering condition to repair it. → Q801, IC802 6. Check DC supply (24 V) on the POWER Board. → CN802-6, 7, 8th pins, CN803-1st pin 7. Check the following signals on the POWER Board. → IC801-8th: (See Fig.10.1.1.) → IC802-1st: (See Fig.10.1.2.) 8. Check DC supply (15 V, 5 V, 3.3 V) on the DRIVE Board. → CN4007-4th pin: 15.5 V CN4007-6, 7th pin: 5 V CN4007-10, 11th pin: 3.3 V 9. Replace faulty parts or boards.	
	2. Safely circuit operates, or is broken.	1. Check whether improper connection and/or condition (for example, a signal line contacts to the plate around the POWER Board or DRIVE Board) affect this issue. 2. Check the connection between CN802 (POWER Board) and CN4003 (DRIVE Board). 3. Check the following parts' soldering condition and signals on the POWER Board. CN802-1st pin IC803, IC804, IC805 Q802, Q806 4. Check the following parts' soldering condition and signals on the DRIVE Board. D4002 to D4011 5. Replace faulty parts or boards.	
	3. LED or its drive circuit does not work, correctly.	1. Check the following connection and soldering condition on each connector. a. CN5000 (PANEL Board) to CN1011 (CONTROL Board) 2. Check the soldering condition of D5000, Q5001, and Q5003 on the PANEL Board, and of Q1004 to Q1007, Z1049, and IC1024 on the CONTROL Board. 3. Check the following signals. a. CN5000-2nd, CN1011-2nd pins: 0 V (when green LED turns ON) b. CN5000-3rd, CN1011-3rd pins: 0 V (when red LED turns ON) 4. Replace faulty parts or boards.	

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Phenomenon	Possible Cause	Check Point	Remarks
FAN does not rotate.	1. Electrical circuit does not work, properly.	1. Check the connection between the FAN and CN803 (POWER Board). 2. Check the following signals on the POWER Board. a. CN803-1st pin: 24 V	
	2. Mechanical problem prevents FAN from rotating.	1. Check whether obstacles that prevent the FAN from rotating exist. 2. Replace the faulty FAN.	
Door switch does not work, correctly.	Refer to Error Code “U30”. (See 10.2.1.)	Refer to Error Code “U30”. (See 10.2.1.)	
Buzzer does not sound.	Buzzer or its control circuit does not operate, correctly.	1. Check the following connection and soldering condition on each connector. a. CN5000 (PANEL Board) to CN1011 (CONTROL Board) 2. Check the soldering condition of Q5000, Q5002, Q5004, BZ5000, and their surrounding circuit on the PANEL Board, and of Z1051 and IC1024 on the CONTROL Board. 3. Check the following signals. CN5000-1st, CN1011-1st pins : 1 kHz (when the buzzer sounds) 4. Replace faulty parts or boards.	
Scanning size is not detected, properly.	1. The location between document guide slider and Size Detector is not proper to detect document size.	1. Check whether the attachment of the SIZE DETECTOR Board is proper. 2. Check the tip of the slider on the bottom of the hopper interrupts detector, according to sliding the guide, normally. 3. Reattach or replace parts.	
	2. The Size detector or its monitor circuit does not work, correctly.	1. Execute **Key / Sensor** test in Sec.9.3.6 to check the detector condition. 2. Check the following connection and soldering condition on each connector. a. CN5016 (SIZE DETECTOR Board) to CN5015 (HOPPER HOME Board) b. CN5012 (HOPPER HOME Board) to CN5010 (RELAY (LOWER) Board) c. CN5007 (RELAY (LOWER) Board) to CN1013 (CONTROL Board) 3. Check the following parts’ and their surrounding circuit’s soldering condition on the SIZE DETECTOR Board and CONTROL Board a. SIZE DETECTOR Board IC5006 to IC5008, IC5011, IC5012 Q5011 to Q5013, Q5016, Q5017 b. CONTROL Board IC1036, Z1063, Z1065, Z1072, Z1073 4. Check the following signals on the CONTROL Board (in case of A4 size) → CN1013-6th: 3.3 V (High) 7th: 3.3 V (High) 8th: 0 V (Low) 9th: 0 V (Low) 10th: 0 V (Low) 5. Replace faulty parts or boards.	

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Phenomenon	Possible Cause	Check Point	Remarks
The scanning image for the front side is not clear.	1. Optical function block on the CIS has a problem.	1. Check the surface of the Image Sensor Cover (F) is not dirty. → Clean the surface with the cleaning paper. 2. Alien substance in the CIS → Remove it.	
	2. Pixel data from CIS (F) or image processing circuit have some problems.	1. Check the following connection and soldering condition on each connector. a. CIS (F) to CN3002 (CIS (F) RELAY Board) : **Only for KV-S3065CW Series** b. CIS (F) to CN3003 (CIS (F) RELAY Board) : **Only for KV-S3065CL Series** c. CN3001 (CIS (F) RELAY Board) to CN1003 (CONTROL Board) d. CN3000 (CIS (F) RELAY Board) to CN1002 (CONTROL Board) e. CN1000 (CONTROL Board) to CN2000 (INTERFACE Board) 2. Check the following CIS timing signals on the CIS (F) RELAY Board are normal. → CN3002-34th, 35th pins: 5 MHz : **Only for KV-S3065CW Series** → CN3003-28th, 29th pins: 5 MHz : **Only for KV-S3065CL Series** 3. Check the soldering condition of the IC1010, IC1011, IC1024 and their surrounding circuit on the CONTROL Board. 4. Check the soldering condition of the IC1006, IC1007, and their surrounding circuit on the CONTROL Board. 5. Check the soldering condition of the IC2045 and its surrounding circuit on the INTERFACE Board. 6. Replace faulty parts or boards.	
The scanning image for the back side image is not clear.	1. Optical function block on the CIS has a problem	1. Check the surface of the Image Sensor Cover (B) is not dirty. → Clean the surface with the cleaning paper. 2. Alien substance in the CIS → Remove it.	
	2. Pixel data from CIS (B) or image processing circuit have some problems.	1. Check the following connection and soldering condition on each connector. a. CIS (B) to CN3006 (CIS (B) RELAY Board) : **Only for KV-S3065CW Series** b. CIS (B) to CN3007 (CIS (B) RELAY Board) : **Only for KV-S3065CL Series** c. CN3004 (CIS (B) RELAY Board) to CN1004 (CONTROL Board) d. CN3005 (CIS (B) RELAY Board) to CN1005 (CONTROL Board) e. CN1000 (CONTROL Board) to CN2000 (INTERFACE Board) 2. Check the following CIS timing signals are normal. → CN3006-34th, 35th pins: 5 MHz : **Only for KV-S3065CW Series** → CN3007-28th, 29th pins: 5 MHz : **Only for KV-S3065CL Series** 3. Check the soldering condition of the IC1012, IC1013, IC1024 and their surrounding circuit on the CONTROL Board. 4. Check the soldering condition of the IC1008, IC1009, and their surrounding circuit on the CONTROL Board. 5. Check the soldering condition of the IC2046 and its surrounding circuit on the INTERFACE Board. 6. Replace faulty parts or boards.	

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Phenomenon	Possible Cause	Check Point	Remarks
Scanning position is shifted	1. When reassembling CIS or mechanical parts related to conveying documents, re-adjustment has not been done.	Execute **All Position** or **Individual Position** test in Sec.9.3.7 to adjust the scanning position.	
	2. When replacing CONTROL Board, CIS, or mechanical parts related to conveying documents, re-adjustment has not been done.		
The document skews when scanning.	1. Document quality is out of this scanner's specification.	Check the specification on this scanner. (See Sec.2.)	
	2. Rollers are dirty.	Clean the rollers. (See 7.2.)	
	3. Rollers are not attached to the default position, properly when assembling.	Assemble the rollers again.	
	4. Rollers have reached their life expectancy.	After inspecting them, replace the roller.	

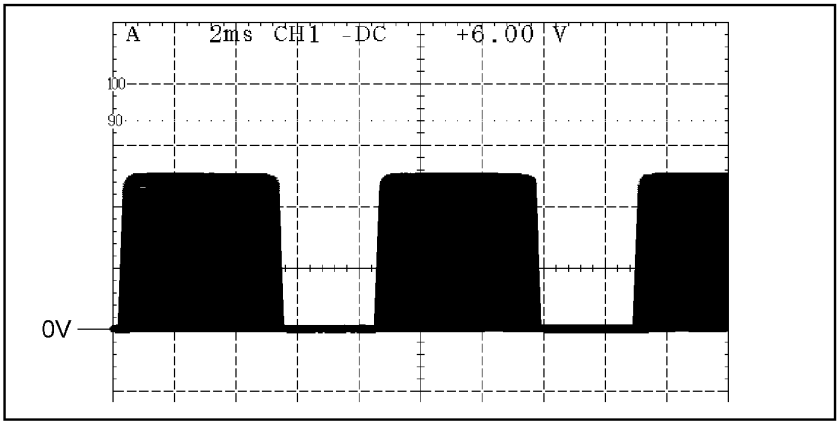


Fig.10.1.1

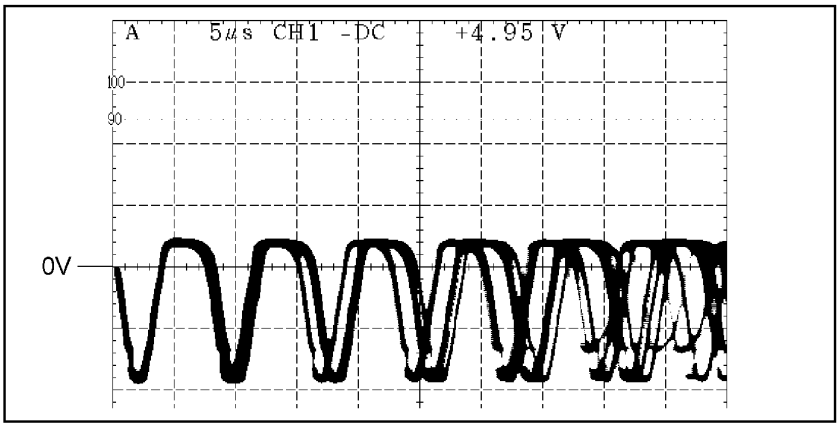


Fig.10.1.2

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10.2. Troubleshooting-2 (According to error message on PC)

10.2.1. Error Code

Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
Error Message "No paper!" "Please set the paper." (No paper error)	-	-	-	-	1. Documents are not set on the Hopper tray.	Set the documents on the tray.	
					2. Paper dust exists on or around the Paper sensor.	Blow off the dirt with the accessory blower. (See Sec.7.)	
					3. Paper Sensor is not working correctly.	1. Execute "**Key / Sensor**" test in the Sec.9.3.6 to check the sensor condition. 2. Check the sensor attachment condition. (whether the sensor attachment direction faces to paper on the Hopper.) 3. Check the following connection and soldering condition on each connector. a. Paper Sensor to CN5021 (SIZE DETECTOR Board) b. CN5016 (SIZE DETECTOR Board) to CN5015 (HOPPER HOME Board) c. CN5012 (HOPPER HOME Board) to CN5010 (RELAY (LOWER) Board) d. CN5007 (RELAY (LOWER) Board) to CN1013 (CONTROL Board) 4. Check the signal "*PAPER" condition : 0 V when paper exists. → Monitor points: CN5021-2nd pin, CN5016-7th pin, CN5015-7th pin, CN5012-2nd pin, CN5010-2nd pin, CN5007-5th pin, CN1013-5th pin 5. Check the soldering condition of IC1034-2nd and 18th pins on the CONTROL Board and repair it. 6. Replace faulty parts or boards.	
U11 (Paper feed jam: Paper did not reach the Waiting Sensor)	11	00	00	00	1. Paper Feed Roller Module or Retard Roller are not assembled correctly.	1. Reassemble the rollers. 2. Check the paper feed mechanism from the Paper Feed Motor's gear to Paper Feed Roller's gear. (See 6.4.)	
					2. Rollers (Paper Feed, Separation, Retard) are dirty.	1. Clean the rollers. (See Sec.7.) 2. Clear counter for cleaning roller to zero with the service utility's operation in Sec.9.	
					3. Rollers have reached their life expectancy.	1. Replace the Paper Feed, Separation, and Retard Rollers after checking each roller configuration and Scanner Counter of Service Utility software. 2. Clear counter for replacing roller to zero with the above service utility.	
					4. Paper dust exists on or around the Waiting Sensor.	1. Blow off the dirt with the accessory blower. (See Sec.7.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
U11 (Paper feed jam: Paper did not reach the Waiting Sensor)	11	00	00	00	5. Waiting Sensor does not work correctly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector.) 3. Check the following connection and soldering condition on each connector. a. CN5027 (WAITING SENSOR Board) to CN5025 (RELAY (UPPER) Board) b. CN5022 (RELAY (UPPER) Board) to CN1014 (CONTROL Board) 4. Check the following signals. a. WAITING signal (CN5027-3rd pin, CN5025-3rd pin) → 0 V (when none exists on the Waiting Sensor) b. Check the reference signal for the STBY signal on the CONTROL Board. IC1014-2nd pin: 1.5 V or less IC1016-5th pin: Approx 1.5 V c. Check comparator output signal. → IC1016-2nd pin: 3.3 V (When no document exists) 5. Replace faulty parts or cables.	
					6. Paper Feed Motor does not work properly.	1. Check the motor mechanism condition, by carrying out **Feed Motor** test. (See 9.3.6.) 2. Check the following connection and soldering condition on each connector. a. Paper Feed Motor to CN5006 (POWER RELAY Board) b. CN5006 to CN5002 on the POWER RELAY Board 3. Check the following signals on the POWER RELAY Board. → CN5006-1, 3, 5, and 7th pins See Fig.10.2.1. 4. Replace faulty cables. 5. Replace the Paper Feed Motor.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
U11 (Paper feed jam: Paper did not reach the Waiting Sensor)	11	00	00	00	7. Paper Feed Motor control circuit does not work properly.	1. Check following connection and soldering condition on each connector. a. CN5002 (POWER RELAY Board) to CN4008 (DRIVE Board) b. CN4001 (DRIVE Board) to CN5033 (POWER RELAY Board) c. CN5032 (POWER RELAY Board) to CN1012 (CONTROL Board) 2. Check the soldering condition of IC4002 on DRIVE Board to repair it. 3. Check the following signals on the DRIVE Board. a. IC4002-11th pin (CLK) See Fig.10.2.2. b. IC4002-7th pin (VREF): 2.3 V or less c. IC4002-15th pin (ENABLE): 5V (When executing "**Feed Motor**" test) 4. Check the soldering condition of IC1037 on the CONTROL Board to repair it. 5. Check the following signals on the CONTROL Board a. IC1037-11th pin (CLK) b. IC1037-2, 5, 6, 9, 12th pins 6. Replace faulty parts or boards.	
U12 (Conveyor Jam 1: Paper did not reach the Starting Sensor.)	12	00	00	00	1. Document remains between Waiting Sensor and Starting Sensor.	Remove the document from the scanner.	
					2. Paper dust exists on or around the Starting Sensor.	1. Blow off the dirt with the accessory blower. (See Sec.7.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	
					3. Starting Sensor does not work, correctly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector.) 3. Check the following connection and soldering condition on each connector. a. CN5028 (STARTING SENSOR Board) to CN5026 (RELAY (UPPER) Board) b. CN5022 (RELAY (UPPER) Board) to CN1014 (CONTROL Board) 4. Check the following signals. a. STARTING signal (CN5028-2nd pin, CN5026-2nd pin, CN5022-3rd pin, CN1014-3rd pin) → 0 V (when none exists on the Starting Sensor) b. Check the reference signals for the PHEAD signal on the CONTROL Board. → IC1014-9th pin: 1.5 V or less (After initializing) → IC1016-9th pin: Approx. 1.5 V c. Check comparator output signal. → IC1016-14th pin: 3.3 V (When no paper exists) 5. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
U12 (Conveyor Jam 1: Paper did not reach the Starting Sensor.)	12	00	00	00	4. Mechanical problem (Drive Roller, Drive Belt, Conveyor)	1. Execute **Feed Motor** and **Conveyor Motor** tests in Sec.9.3.6 to check the mechanical condition. 2. Check whether the Drive Rollers (especially Drive Roller 1), the Drive belt, and whether the conveyor to support the Drive Rollers are put together into the scanner, properly. 3. Check the surfaces of the Drive Rollers. a. Configuration: Do the rollers swell irregularly? → Replace the roller. b. Whether the roller surface is dirty → Clean the surface. 4. Check whether the Drive Belt tension is proper. → Re-adjust the belt tension.	
					5. Conveyor Motor does not work properly.	1. Execute **Conveyor Motor** test in Sec.9.3.6 to check the motor's rotating condition. 2. Check the following connection and soldering condition on the POWER RELAY Board. a. Conveyor Motor to CN5005 (POWER RELAY Board) b. CN5005 to CN5002 on the POWER RELAY Board 3. Check the following signals → CN5005-1, 3, 4, or 6th pins (when executing "Conveyor Motor" test) : See 10.2.3. 4. Replace faulty parts or POWER RELAY Board.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
U12 (Conveyor Jam 1: Paper did not reach the Starting Sensor.)	12	00	00	00	6. Conveyor Motor circuit does not work properly.	1. Execute **Conveyor Motor** test in Sec.9.3.6 to check the motor's rotating condition. 2. Check the following connection and soldering condition. a. CN5002 (POWER RELAY Board) to CN4008 (DRIVE Board) b. CN4001 (DRIVE Board) to CN5033 (POWER RELAY Board) c. CN5032 (POWER RELAY Board) to CN1012 (CONTROL Board) d. CN1000 (CONTROL Board) to CN2000 (INTERFACE Board) 3. Check the soldering condition of IC4001 and its surrounding circuit on DRIVE Board to repair it. 4. Check the following signals on the DRIVE Board. a. IC4001-11th pin (CLK) : See Fig.10.2.4. b. IC4001-7th pin (VREF): 2.3 V or less c. IC4001-15th pin (ENABLE): 5 V (When executing "Conveyor Motor" test) 5. Check the soldering condition of IC1038 on CONTROL Board to repair it. a. 11th pin (CLK) b. 2, 5, 6, 9, and 12th pins 6. Check the soldering condition of IC2045-224th pin on the INTERFACE Board to repair it. 7. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
U13 (Conveyor Jam 2) : Paper did not reach the Paper Jam Sensor.)	13	00	00	00	1. Document remains between Starting Sensor and Paper Jam Sensor.	Remove the document from the scanner.	
					2. Paper dust exists on or around Paper Jam Sensor.	1. Blow off the dirt with the accessory blower. (See Sec.7.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	
					3. Paper Jam Sensor does not work correctly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector.) 3. Check the following connection and soldering condition on each connector. a. CN5019 (PAPER JAM SENSOR Board) to CN5017 (POINTER Board) b. CN5013 (POINTER Board) to CN5008 (POWER RELAY Board) c. CN5032 (POWER RELAY Board) to CN1012 (CONTROL Board) 4. Check the following signals. a. JAM signal (CN5019-1st pin, CN5017-1st pin, CN5013-2nd pin, CN5008-2nd pin, CN5032-30th pin, CN1012-30th pin) → 0 V (when none exists on the Paper Jam Sensor) b. Check the reference signals for the PJAM signal on the CONTROL Board. → IC1015-13th pin: 1.5 V or less → IC 1017-11th pin: Approx. 1.5 V c. Check comparator output signal. → IC1017-13th pin: 3.3 V (When no paper exists) 5. Replace faulty parts or board.	
					4. Mechanical problem (Drive Rollers, Conveyor Rollers, Drive Belt, Conveyor)	1. Check the Pointer's mechanical position and Pointer Detector's status. 2. Execute **Conveyor Motor** test in Sec.9.3.6 to check the mechanical condition. 3. Check whether the Drive Rollers (2, 3), Conveyor Rollers (1, 2) and Drive belt, and whether the conveyors to support the Drive Rollers and Conveyor Rollers are put together into the scanner, properly. 4. Check the surfaces of the Drive Rollers (2, 3) and of the Conveyor Rollers (1, 2). a. Configuration: Do the rollers swell irregularly? → Replace the rollers. b. Whether the roller surfaces are dirty → Clean the surfaces. 5. Check whether the Drive Belt tension is proper. → Re-adjust the belt tension.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
U14 (Conveyor Jam 3) : Paper did not reach the Ending (Front) Sensor.)	14	00	00	00	1. Document remains between Paper Jam Sensor and Ending (Front) Sensor.	Remove the document from the scanner.	
					2. Paper dust exists on or around the Ending (Front) Sensor.	1. Blow off the dirt with the accessory blower. (See Sec.7.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	
					3. Ending (Front) Sensor does not work, correctly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector.) 3. Check the following connection and soldering condition on each connector. a. CN5024 (ENDING (FRONT) SENSOR Board) to CN5023 (RELAY (UPPER) Board) b. CN5022 (RELAY (UPPER) Board) to CN1014 (CONTROL Board) 4. Check the following signals. a. F_ENDING signal (CN5024-3rd pin, CN5023-3rd pin, CN5022-2nd pin, CN1014-2nd pin) → 0 V (when none exists on the Ending (Front) Sensor) b. Check the reference signals for the PEXIT signal on the CONTROL Board. → IC1015-6th pin: 1.5 V or less (After initializing) → IC1017-7th pin: Approx. 1.5 V c. Check comparator output signal. → IC1017-1st pin: 3.3 V (When no paper exists) 5. Replace faulty parts or board.	
					4. Mechanical problem (Drive Roller, Drive Belt, Conveyor)	1. Execute **Conveyor Motor** test in Sec.9.3.6 to check the mechanical condition. 2. Check whether the Conveyor Rollers (2, 3) and Drive belt, and whether the conveyor to support the Drive Rollers are put together into the scanner, properly. 3. Check the surfaces of the Conveyor Rollers (2, 3). a. Configuration: Do the rollers swell irregularly? → Replace the rollers. b. Whether the roller surfaces are dirty → Clean the surfaces. 4. Check whether the Drive Belt tension is proper. → Re-adjust the belt tension.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
U15 (Conveyor Jam 3 : Paper did not reach the Ending (Rear) Sensor.)	15	00	00	00	1. Document remains between Starting Sensor and Ending (Rear) Sensor.	Remove the document from the scanner.	
					2. Paper dust exists on or around the Ending (Rear) Sensor.	1. Blow off the dirt with the accessory blower. (See Sec.7.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	
					3. Ending (Rear) Sensor does not work, correctly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector.) 3. Check the following connection and soldering condition on each connector. a. CN5020 (ENDING (REAR) SENSOR Board) to CN5018 (POINTER Board) b. CN5013 (POINTER Board) to CN5008 (POWER RELAY Board) c. CN5032 (POWER RELAY Board) to CN1012 (CONTROL Board) 4. Check the following signals. a. R_ENDING signal (CN5020-1st pin, CN5018-1st pin, CN5013-3rd pin, CN5008-3rd pin, CN5032-31st pin, CN1012-31st pin) → 0 V (when none exists on the Ending (Rear) Sensor) b. Check the reference signals for the REXIT signal on the CONTROL Board. → IC1014-13th pin: 1.5 V or less (After initializing) → IC1016-11th pin: Approx. 1.5 V c. Check comparator output signal. → IC1016-13th pin: 3.3 V (When no paper exists) 5. Replace faulty parts or board.	
					4. Mechanical problem (Drive Roller, Straight Exit Roller, Drive Belt, Conveyor, Pointer)	1. Execute **Conveyor Motor** test in Sec.9.3.6 to check the mechanical condition. 2. Check the Pointer's mechanical position and Pointer Detector's status. 3. Check whether the Drive Rollers (2, 3), and Straight Exit Roller, Drive belt, and the conveyor to support the rollers are put together into the scanner, properly. 4. Check the surfaces of the Drive Rollers (2, 3), of the Straight Exit Roller. a. Configuration: Do the rollers swell irregularly? → Replace the rollers. b. Whether the roller surface are dirty → Clean the surfaces. 5. Check whether the Drive Belt tension is proper. → Re-adjust the belt tension.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
U16 (Exit Jam 1 : Paper did not go out of the Ending (Front) Sensor throughout.	16	00	00	00	1. Document remains forward Ending (Front) Sensor.	Remove the document from the scanner.	
					2. Paper dust exists on or around the Ending (Front) Sensor.	1. Blow off the dirt with the accessory blower. (See Sec.7.2.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	
					3. Mechanical problem (Exit Roller, Drive Belt, Conveyor)	1. Execute **Conveyor Motor** test in Sec.9.3.6 to check the mechanical condition. 2. Check whether the Conveyor Rollers (2, 3), Exit Roller, Drive belt, and the conveyor to support the rollers are put together into the scanner, properly. 3. Check the surfaces of the Conveyor Rollers (2, 3), and of the Exit Roller. a. Configuration: Do the rollers swell irregularly? → Replace the rollers. b. Whether the roller surfaces are dirty → Clean the surfaces. 4. Check whether the Drive Belt tension is proper. → Re-adjust the belt tension.	
U17 (Exit Jam 2 : Paper did not go out of the Ending (Rear) Sensor throughout.	17	00	00	00	1. Document remains forward Ending (Rear) Sensor.	Remove the document from the scanner.	
					2. Paper dust exists on or around the Ending (Rear) Sensor.	1. Blow off the dirt with the accessory blower. (See Sec.7.2.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	
					3. Mechanical problem (Straight Exit Roller, Drive Roller, Drive Belt, Conveyor)	1. Execute **Conveyor Motor** test in Sec.9.3.6 to check the mechanical condition. 2. Check whether the Drive Roller 3, Straight Exit Roller, Drive belt, and the conveyors to support the rollers are put together into the scanner, properly. 3. Check the surfaces of the Straight Exit Roller, and of the Drive Roller 3. a. Configuration: Do the rollers swell irregularly? → Replace the rollers. b. Whether the roller surfaces are dirty → Clean the surfaces. 4. Check whether the Drive Belt tension is proper. → Re-adjust the belt tension.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
U18 (Document remains in scanner)	18	xx	00	00	1. Document remains in scanner.	Remove the document from the scanner.	
					2. Paper dust exists on a sensor.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to define the sensor that results in this problem. 2. Blow off the dirt on the surface of the sensor with the accessory blower. (See Sec.7.2.)	
					3. A sensor does not work correctly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to define the sensor that occurs this problem. 2. Check each sensor, its connection, and its monitor circuit. a. Waiting Sensor → See the 5th item of "U11". b. Starting Sensor → See the 3rd item of "U12". c. Skew (L) or Skew (R) Sensor → See the 6th and 7th item of "U20". d. Ending (Front) Sensor → See the 3rd item of "U14". e. Ending (Rear) Sensor → See the 3rd item of "U15". f. Paper Jam Sensor → See the 3rd item of "U13".	
U20 : Skew error	19	00	00	00	1. Document on the Hopper Tray is not set correctly.	Set the document on the Hopper Tray, sliding the Document Guide according to the document width. And execute scanning, again.	
					2. Front Door is not closed firmly.	Close the door surely.	
					3. A roller (Paper Feed, Separation, Retard, Drive, Conveyor, Exit, or Free) is dirty.	1. Clean the rollers. (See Sec.7.2.) 2. Clear counter for cleaning roller to zero with the service utility's operation in Sec.9.	
					4. A roller (Paper Feed, Separation, Retard, Drive, Conveyor, or Exit) swells irregularly.	Replace the roller. **Note:** **After replacing Paper Feed, Separation, and Retard rollers, clear the counter for replacing roller to zero with the service utility.**	
					5. Paper dust exists on or around a Skew Sensor.	Blow off the dirt on the surface of the sensor with the accessory blower. (See Sec.7.2.)	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
U20 : Skew error	19	00	00	00	6. The Skew (L) Sensor does not work, properly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector). 3. Check the following connection and soldering condition on each connector. a. CN5027 (WAITING SENSOR Board) to CN5025 (RELAY (UPPER) Board) b. CN5022 (RELAY (UPPER) Board) to CN1014 (CONTROL Board) 4. Check the following signals. a. SKEW_L signal (CN5027-4th pin, CN5025-4th pin, CN5022-6th pin, CN1014-6th pin) → 0 V (when none exists on the Skew (L) Sensor) b. Check the reference signals for the SKEWL signal on the CONTROL Board. → IC1015-9th pin: 1.5 V or less (After initializing) → IC1017-9th pin: Approx. 1.5 V c. Check comparator output signal. → IC1017-14th pin: 3.3 V (When no paper exists) 5. Replace faulty parts or boards.	
					7. The Skew (R) Sensor does not work, properly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector). 3. Check the following connection and soldering condition on each connector. a. CN5030 (SKEW (R) Board) to CN5029 (WAITING SENSOR Board) b. CN5027 (WAITING SENSOR Board) to CN5025 (RELAY (UPPER) Board) c. CN5022 (RELAY (UPPER) Board) to CN1014 (CONTROL Board) 4. Check the following signals. a. SKEW_R signal (CN5030-2nd pin, CN5029-2nd pin, CN5027-2nd pin, CN5025-2nd pin, CN5022-4th pin, CN1014-4th pin) → 0 V (when none exists on the Skew (R) Sensor) b. Check the reference signals for the SKEWR signal on the CONTROL Board. → IC1015-2nd pin: 1.5 V or less (After initializing) → IC1017-5th pin: Approx. 1.5 V c. Check comparator output signal. → IC1017-2nd pin: 3.3 V (When no paper exists) 5. Replace faulty parts or boards.	

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Error Code					Possible Cause		Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4				
U23 (Double feed error)	1C	00	xx	00	Double feed occurs.	1. Document quality is out of spec. of this scanner	1. Set the correct documents on the Hopper Tray according to this scanner specification. **Note: Refer to Sec.2.**	
						2. "**ADF/Manual Feed Selector**" is in "**MANUAL**".	1. Set the "**ADF/Manual Feed Selector**" to "**1**", "**2**", "**3**", or "**4**". 2. Execute scanning, again.	
						3. Rollers (Paper Feed, Separation, Retard) are not assembled, properly.	1. Reassemble the rollers.	
						4. Rollers (Paper Feed, Separation, Retard) are dirty.	1. Clean the rollers. 2. Clear counter for cleaning roller to zero with the above service utility.	
						5. Rollers have reached their life expectancy.	1. Replace the Paper Feed, Separation, and Retard Rollers after checking each roller configuration and Scanner Counter of Service Utility software. 2. Clear counter for replacing roller to zero with the above service utility.	

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Error Code					Possible Cause		Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4				
U23 (Double feed error)	1C	00	xx	00	Double feed does not occur.	1. Double Feed Detector (G) does not work, properly.	1. Execute **Double Feed** test in Sec.9.3.6 to check the detector condition. 2. Check whether the Double Feed Detector (G) is aligned properly. 3. Check the following connection and soldering condition on each connector. a. Double Feed Detector (G) to CN5031 (RELAY (UPPER) Board) b. CN5022 (RELAY (UPPER) Board) to CN1014 (CONTROL Board) 4. Check the following parts' soldering condition to repair it. a. CONTROL Board IC1024 (43, 44, 45th, and 46th pins), IC1018 b. RELAY (UPPER) Board IC5013, Q5018, Q5020, Q5021, Q5022, Q5024, Q5025, Q5027, Q5028, Q5029, and the surround circuit 5. Check the following signals. a. DC 24V signal (CN5022-9th pin) b. JS_CLK (CN5022-11th pin) → 200 kHz c. USOUND_S1 (CN5031-1st pin) → 200 kHz 6. Replace faulty parts or boards.	
						2. Double Feed Detector (R) does not work, properly.	1. Execute **Double Feed** test in Sec.9.3.6 to check the detector condition. 2. Check whether the Double Feed Detector (R) is aligned properly. 3. Check the following connection and soldering condition on each connector. a. Double Feed Detector (R) to CN5011 (RELAY (LOWER) Board) b. CN5007 (RELAY (LOWER) Board) to CN1013 (CONTROL Board) 4. Check the following parts' soldering condition to repair it. a. CONTROL Board IC1024 (117th pins) b. RELAY (LOWER) Board IC5000, IC5001, Q5005, Q5006, and the surround circuit 5. Check the following signals on the RELAY (LOWER) Board. a. IC5001-7th pin: DC 12 V b. IC5000-7th pin: See Fig.10.2.5. 6. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
U30 (Door open)	20	00	00	00	1. Front Door is not closed enough.	1. Shut the door properly.	
					2. Door SW (Micro switch) does not work correctly.	1. Execute **Key / Sensor** in Sec.9.3.6 to check the door switch's mechanical condition between the door and micro switch. 2. Check the connection between the door switches (Front Door Switch) and CN5003 on the POWER RELAY Board. 3. Replace a faulty cable or switch.	
					3. Monitor circuit to check the door ON/OFF condition is broken.	1. Check the following connection and soldering condition on each connector. a. CN5001 (POWER RELAY Board) to CN4005 (DRIVE Board) b. CN4001 (DRIVE Board) to CN5033 (POWER RELAY Board) c. CN5032 (POWER RELAY Board) to CN1012 (CONTROL Board) 2. Check the following parts' soldering condition to repair it. a. DRIVE Board Q4007, R4005, R4007, D4001 b. CONTROL Board IC1024-120th pin 3. Check the following signals. a. +24VIL (D4001 Cathode): 24 V b. DOOR1 (CN4001-34th pin, CN5033-3rd pin, CN5032-3rd pin, CN1012-3rd pin): 0 V 4. Replace faulty parts or boards.	
U32 (Post-imprinter Door Open)	22	00	00	00	1. Post-imprinter Door is not closed enough.	1. Shut the door properly.	
					2. Post-imprinter Door Detector does not work correctly.	1. Check the tip inside the Post-imprinter Door interrupts the detector when closing the door. 2. Execute **Key / Sensor** in Sec.9.3.6 to check the detector status. 3. Check the following connection and soldering condition on each connector. a. CN5014 (POST-IMPRINTER DOOR Board) to CN5009 (POWER RELAY Board) b. CN5032 (POWER RELAY Board) to CN1012 (CONTROL Board) 4. Check the following parts' soldering condition to repair it. a. POST-IMPRINTER DOOR Board → IC5004, Q5009, R5032, R5034 b. CONTROL Board → IC1035, Z1067, Z1071 5. Check the following signals on POST-IMPRINTER DOOR, POWER RELAY, and CONTROL Boards. a. CN5014-3rd pin, CN5009-3rd pin, CN5032-29th pin, and CN1012-29th pin → 0 V (when opening the Post-imprinter Door) 6. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
U34 (Pre-imprinter Door Open)	24	00	00	00	1. Pre-imprinter Door is not closed enough.	1. Shut the door properly.	
					2. Pre-imprinter Door Detector does not work correctly.	1. Check the tip inside the Pre-imprinter Door interrupts the detector when closing the door. 2. Execute **Key / Sensor** in Sec.9.3.6 to check the detector status. 3. Check the following connection and soldering condition on each connector. a. CN5022 (RELAY (UPPER) Board) to CN1014 (CONTROL Board) 4. Check the following parts' soldering condition to repair it. a. RELAY (UPPER) Board → Q5019, IC5014, R5052, R5054 b. CONTROL Board → IC1035, Z1064, Z1070 5. Check the following signals on the RELAY (UPPER) Board and CONTROL Board. a. CN5022-7th pin, CN1014-7th pin → 0 V (when opening the Pre-imprinter Door) 6. Replace faulty parts or boards.	
F17 (GA-IMG SDRAM error)	87	xx	00	00	Access error to SDRAM (IC2018, IC2019, IC2020, IC2021) on the INTERFACE Board	1. Check the soldering condition of the Gate Array (IC2047) on the INTERFACE Board to repair it. 2. Check the soldering condition of the SDRAM (IC2018, IC2019, IC2020, IC2021) on the INTERFACE Board to repair it. 3. Replace faulty parts or INTERFACE Board.	
F18 (GA-IMG Additional SDRAM error)	88	00	00	00	Access error to an additional SDRAM attached to CN2007	1. Check whether the additional SDRAM is attached to CN2007, properly. Or re-attach it. 2. Check the SDRAM is one of the memories recommended by PCC. 3. Check the soldering condition of the Gate Array (IC2047) and its surrounding circuit on the INTERFACE Board to repair it. 4. Check the soldering condition of the CN2007 (for the SDRAM) and its surrounding circuit on the INTERFACE Board to repair it. 5. Replace faulty parts or INTERFACE Board.	
F31 (Analogue IC Error)	95	00	00	00	Access error to Analogue IC	1. Check the soldering condition of the IC1010 to IC1013 and its surrounding circuit on the CONTROL Board to repair it. 2. Check the soldering condition of the IC1024 and its surrounding circuit on the CONTROL Board to repair it. 3. Replace the CONTROL Board.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F32 (SCSI IC Error)	96	00	00	00	Access error to SCSI Controller	1. Check the connection and soldering condition between CN2000 (INTERFACE Board) and CN1000 (CONTROL Board). 2. Check the soldering condition of the SCSI Controller (IC2029) and its surrounding circuit on the INTERFACE Board to repair it. 3. Check the soldering condition of the Address Decoder (IC1032: especially 15th pin) and its surrounding circuit on the CONTROL Board to repair it. 4. Replace faulty parts or boards (CONTROL or INTERFACE).	
F33 (USB IC Error)	97	00	00	00	Access error to USB Controller	1. Check the connection and soldering condition between CN2000 (INTERFACE Board) and CN1000 (CONTROL Board). 2. Check the soldering condition of the USB Controller (IC2031) and its surrounding circuit on the INTERFACE Board to repair it. 3. Check the soldering condition of the Address Decoder (IC1032: especially 14th pin) and its surrounding circuit on the CONTROL Board to repair it. 4. Replace faulty parts or boards (CONTROL or INTERFACE).	
F34 (EEPROM Error)	98	00	00	00	Access error to EEPROM	1. Check the soldering condition of the EEPROM (IC1023) and its surrounding circuit on the CONTROL Board to repair it. 2. Check the soldering condition of the CPU (IC1024: 113, 114, 115th pins) and its surrounding circuit on the CONTROL Board to repair it. 3. Replace faulty parts or CONTROL Board.	
F36 (GA-SEN (Front) SDRAM Error)	9A	xx	00	00	Access error to SDRAM (IC2006, IC2007, IC2008)	1. Check the soldering condition of the Gate Array GA-SEN (IC2045) and its surrounding circuit on the INTERFACE Board to repair it. 2. Check the soldering condition of the SDRAM (IC2006, IC2007, IC2008) and its surrounding circuit on the INTERFACE Board to repair it. 3. Replace faulty parts or INTERFACE Board.	
F37 (Overrun Error)	9B	01	xx	xx	Overrun error during image scanning process	1. Confirm the firmware version.	
F38 (GA-SEN (Back) SDRAM Error)	9C	xx	00	00	Access error to SDRAM (IC2010, IC2011, IC2012)	1. Check the soldering condition of the Gate Array GA-SEN (IC2046) and its surrounding circuit on the INTERFACE Board to repair it. 2. Check the soldering condition of the SDRAM (IC2010, IC2011, IC2012) and its surrounding circuit on the INTERFACE Board to repair it. 3. Replace faulty parts or INTERFACE Board.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F40 (Hopper Error)	30	00	00	00	1. Paper Feed Motor does not work properly.	1. Check the hopper mechanism condition, by carrying out **Hopper Drive** test. (See 9.3.6.) 2. Check the following connection and soldering condition on each connector. a. Paper Feed Motor to CN5006 (POWER RELAY Board) b. CN5006 to CN5002 on the POWER RELAY Board 3. Check the following signals → CN5006-1, 3, 5, 7th pins See Fig.10.2.1. 4. Replace faulty cables. 5. Replace the Paper Feed Motor.	
					2. Paper Feed Motor control circuit does not work properly.	1. Check following connection and soldering condition on each connector. a. CN5002 (POWER RELAY Board) to CN4008 (DRIVE Board) b. CN4001 (DRIVE Board) to CN5033 (POWER RELAY Board) c. CN5032 (POWER RELAY Board) to CN1012 (CONTROL Board) 2. Check the soldering condition of IC4002 on DRIVE Board to repair it. 3. Check the following signals on the DRIVE Board. a. IC4002-11th pin (CLK) : See Fig.10.2.2. b. IC4002-7th pin (VREF): 2.3 V or less c. IC4002-15th pin (ENABLE): 5 V (When executing "**Feed motor**" test) 4. Check the soldering condition of IC1038 on CONTROL Board to repair it. a. 11th pin (CLK) b. 2, 5, 6, 9, 12th pins 5. Replace faulty parts or boards.	
					3. Rotation from the Paper Feed Motor Gear is not transmitted, to the hopper properly.	1. Check the hopper mechanism condition, by carrying out **Hopper Drive** test. (See 9.3.6.) **Note:** **Hopper lift drive mechanism** **→ See 6.4 and 6.5.** 2. Reassemble improper lay-out or replace faulty parts.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F40 (Hopper Error)	30	00	00	00	4. Hopper Home Detector does not work correctly.	1. Check the alignment of Hopper Home Detector and its actuator is proper. 2. Execute **Key / Sensor** test in Sec.9.3.6 to check the sensor condition. 3. Check the following connection and soldering condition on each connector. a. CN5012 (HOPPER HOME Board) to CN5010 (RELAY (LOWER) Board) b. CN5007 (RELAY (LOWER) Board) to CN1013 (CONTROL Board) 4. Check the soldering condition of IC5002 and its surrounding circuit on the HOPPER HOME Board, and of IC1036 and its surrounding circuit on the CONTROL Board to repair it. 5. Check the following signals. HOPPER_HOME signal (CN5012-8th pin on the HOPPER HOME Board, IC1036-3rd pin on the CONTROL Board) → Approx. 3.3 V (when the actuator interrupts the detector) 6. Replace faulty parts or boards.	
F50 (Waiting Sensor adjustment error)	40	00	00	00	1. Paper dust exists on or around the Waiting Sensor.	1. Blow off the dirt with the accessory blower. (See 7.2.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	
					2. Waiting Sensor does not work correctly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector). 3. Check the following connection and soldering condition on each connector. a. CN5027 (WAITING SENSOR Board) to CN5025 (RELAY (UPPER) Board) b. CN5022 (RELAY (UPPER) Board) to CN1014 (CONTROL Board) 4. Check the following signals. a. WAITING signal (CN5027-3rd pin, CN5025-3rd pin) → 0 V (when none exists on the Waiting Sensor) b. Check the reference signal for the STBY signal on the CONTROL Board. IC1014-2nd pin: 1.5 V or less IC1016-5th pin: Approx. 1.5 V c. Check comparator output signal. → IC1016-2nd pin: 3.3 V (when no paper exists) 5. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F51 (Starting Sensor adjustment error)	41	00	00	00	1. Paper dust exists on or around the Starting Sensor.	1. Blow off the dirt with the accessory blower. (See 7.2.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	
					2. Starting Sensor does not work correctly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector). 3. Check the following connection and soldering condition on each connector. a. CN5028 (STARTING SENSOR Board) to CN5026 (RELAY (UPPER) Board) b. CN5022 (RELAY (UPPER) Board) to CN1014 (CONTROL Board) 4. Check the following signals. a. STARTING signal (CN5028-2nd pin, CN5026-2nd pin, CN5022-3rd pin) → 0 V (when none exists on the Starting Sensor) b. Check the reference signals for the PHEAD signal on the CONTROL Board. → IC1014-9th pin: 1.5 V or less (After initializing) → IC1016-9th pin: Approx. 1.5 V c. Check comparator output signal. → IC1016-14th pin: 3.3 V 5. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F52 (Skew (R) Sensor adjustment error)	42	00	00	00	1. Paper dust exists on or around a Skew (R) Sensor.	1. Blow off the dirt on surface of the sensor with the accessory blower. (See 7.2.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	
					2. The Skew (R) Sensor does not work, properly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector). 3. Check the following connection and soldering condition on each connector. a. CN5030 (SKEW (R) Board) to CN5029 (WAITING SENSOR Board) b. CN5027 (WAITING SENSOR Board) to CN5025 (RELAY (UPPER) Board) c. CN5022 (RELAY (UPPER) Board) to CN1014 (CONTROL Board) 4. Check the following signals. a. SKEW_R signal (CN5030-2nd pin, CN5029-2nd pin, CN5027-2nd pin, CN5025-2nd pin, CN5022-4th pin, CN1014-4th pin) → 0 V (when none exists on the Skew (R) Sensor) b. Check the reference signals for the SKEW_R signal on the CONTROL Board. → IC1015-2nd pin: 1.5 V or less (After initializing) → IC1017-5th pin: Approx. 1.5 V c. Check comparator output signal. → IC1017-2nd pin: 3.3 V (When no paper exists) 5. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F53 (Skew (L) Sensor adjustment error)	43	00	00	00	1. Paper dust exists on or around a Skew (L) Sensor.	1. Blow off the dirt on the surface of the sensor with the accessory blower. (See 7.2.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	
					2. The Skew (L) Sensor does not work correctly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector). 3. Check the following connection and soldering condition on each connector. a. CN5027 (WAITING SENSOR Board) to CN5025 (RELAY (UPPER) Board) b. CN5022 (RELAY (UPPER) Board) to CN1014 (CONTROL Board) 4. Check the following signals. a. SKEW_L signal (CN5027-4th pin, CN5025-4th pin, CN5022-6th pin, CN1014-6th pin) → 0 V (when none exists on the Skew (L) Sensor) b. Check the reference signals for the SKEW_L signal on the CONTROL Board. → IC1015-9th pin: 1.5 V or less (After initializing) → IC1017-9th pin: Approx. 1.5 V c. Check comparator output signal. → IC1017-14th pin: 3.3 V (When no paper exists) 5. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F54 (Paper Jam Sensor adjustment error)	44	00	00	00	1. Paper dust exists on or around the Paper Jam Sensor.	1. Blow off the dirt with the accessory blower. (See 7.2.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	
					2. The Paper Jam Sensor does not work, properly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector). 3. Check the following connection and soldering condition on each connector. a. CN5019 (PAPER JAM SENSOR Board) to CN5017 (POINTER Board) b. CN5013 (POINTER Board) to CN5008 (POWER RELAY Board) c. CN5032 (POWER RELAY Board) to CN1012 (CONTROL Board) 4. Check the following signals. a. JAM signal (CN5019-1st pin, CN5017-1st pin, CN5013-2nd pin, CN5008-2nd pin, CN5032-30th pin, CN1012-30th pin) → 0 V (when none exists on the Paper Jam Sensor) b. Check the reference signals for the PJAM signal on the CONTROL Board. → IC1015-13th pin: 1.5 V or less (After initializing) → IC1017-11th pin: Approx. 1.5 V c. Check comparator output signal. → IC1017-13th pin: 3.3 V (When no paper exists) 5. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F55 (Ending (Front) Sensor adjustment error)	45	00	00	00	1. Paper dust exists on or around the Ending (Front) Sensor.	1. Blow off the dirt with the accessory blower. (See 7.2.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	
					2. Ending (Front) Sensor does not work correctly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector). 3. Check the following connection and soldering condition on each connector. a. CN5024 (ENDING (FRONT) SENSOR Board) to CN5023 (RELAY (UPPER) Board) b. CN5022 (RELAY (UPPER) Board) to CN1014 (CONTROL Board) 4. Check the following signals. a. F_ENDING signal (CN5024-3rd pin, CN5023-3rd pin, CN5022-2nd pin, CN1014-2nd pin) → 0 V (when none exists on the Ending (Front) Sensor) b. Check the reference signals for the PEXIT signal on the CONTROL Board. → IC1015-6th pin: 1.5 V or less (After initializing) → IC1017-7th pin: Approx. 1.5 V c. Check comparator output signal. → IC1017-1st pin: 3.3 V (When no paper exists) 5. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F56 (Ending (Rear) Sensor adjustment error)	46	00	00	00	1. Paper dust exists on or around the Ending (Rear) Sensor.	1. Blow off the dirt with the accessory blower. (See 7.2.) 2. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition.	
					2. Ending (Rear) Sensor does not work, properly.	1. Execute **Key / Sensor** and **Sensor Sensitive Level** tests in Sec.9.3.6 to check the sensor condition. 2. Check whether the sensor alignment is proper (whether the sensor direction faces to its reflector). 3. Check the following connection and soldering condition on each connector. a. CN5020 (ENDING (REAR) SENSOR Board) to CN5018 (POINTER Board) b. CN5013 (POINTER Board) to CN5008 (POWER RELAY Board) c. CN5032 (POWER RELAY Board) to CN1012 (CONTROL Board) 4. Check the following signals. a. R_ENDING signal (CN5020-1st pin, CN5018-1st pin, CN5013-3rd pin, CN5032-31st pin, CN1012-31st pin) → 0 V (when none exists on the Ending (Rear) Sensor) b. Check the reference signals for the REXIT signal on the CONTROL Board. → IC1014-13th pin: 1.5 V or less (After initializing) → IC1016-11th pin: Approx. 1.5 V c. Check comparator output signal. → IC1016-13th pin: 3.3 V (When no paper exists) 5. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F60 (Front side gain adjustment error)	50	00	00	00	1. Image Sensor Cover (F) is dirty.	Clean the cover surface. (See 7.2.)	
					2. CIS (F) lamp does not light.	1. Execute **CIS Level** test in Sec.9.3.6 to check the peak level. 2. Check the following connection and soldering condition on each connector. a. CIS (F) to Lamp Drive (F) Board b. Lamp Drive (F) Board to CN5034 (POWER RELAY Board) c. CN5032 (POWER RELAY Board) to CN1012 (CONTROL Board) d. CN5001 (POWER RELAY Board) to CN4005 (DRIVE Board) e. CN4003 (DRIVE Board) to CN802 (POWER Board) 3. Check the lamp control signals to the CIS (F) → CN5034-1st pin: 24 V → CN5034-2nd pin: 5 V (When lamp is ON) 4. Replace faulty parts or boards.	
					3. Pixel data from CIS (F) or image processing circuit have some problems.	1. Check the following connection and soldering condition on each connector. a. CIS (F) to CN3002 (CIS (F) RELAY Board): **Only for KV-S3065CW Series** b. CIS (F) to CN3003 (CIS (F) RELAY Board): **Only for KV-S3065CL Series** c. CN3001 (CIS (F) RELAY Board) to CN1003 (CONTROL Board) d. CN3000 (CIS (F) RELAY Board) to CN1002 (CONTROL Board) e. CN1000 (CONTROL Board) to CN2000 (INTERFACE Board) 2. Check the following CIS timing signals on the CIS (F) RELAY Board are normal. → CN3002-34th, 35th pins: 5 MHz : **Only for KV-S3065CW Series** → CN3003-28th, 29th pins: 5 MHz : **Only for KV-S3065CL Series** 3. Check the soldering condition of the IC1010, IC1011, IC1024, and their surrounding circuit on the CONTROL Board. 4. Check the soldering condition of the IC1006, IC1007, and their surrounding circuit on the CONTROL Board. 5. Check the soldering condition of the IC2045 and its surrounding circuit on the INTERFACE Board. 6. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F61 (Front side black level error)	51	00	00	00	Pixel data from CIS (F) or image processing circuit have some problems.	1. Check the following connection and soldering condition on each connector. a. CIS (F) to CN3002 (CIS (F) RELAY Board): **Only for KV-S3065CW Series** b. CIS (F) to CN3003 (CIS (F) RELAY Board): **Only for KV-S3065CL Series** c. CN3001 (CIS (F) RELAY Board) to CN1003 (CONTROL Board) d. CN3000 (CIS (F) RELAY Board) to CN1002 (CONTROL Board) e. CN1000 (CONTROL Board) to CN2000 (INTERFACE Board) 2. Check the following CIS timing signals on the CIS (F) RELAY Board are normal. → CN3002-34th, 35th pins: 5 MHz : **Only for KV-S3065CW Series** → CN3003-28th, 29th pins: 5 MHz : **Only for KV-S3065CL Series** 3. Check the soldering condition of the IC1010, IC1011, IC1024, and their surrounding circuit on the CONTROL Board. 4. Check the soldering condition of the IC1006, IC1007, and their surrounding circuit on the CONTROL Board. 5. Check the soldering condition of the IC2045 and its surrounding circuit on the INTERFACE Board. 6. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F62 (Back side gain adjustment error)	52	00	00	00	1. Image Sensor Cover (B) is dirty.	Clean the cover surface. (See 7.2.)	
					2. CIS (B) lamp does not light.	1. Execute **CIS Level** test in Sec.9.3.6 to check the peak level. 2. Check the following connection and soldering condition on each connector. a. CIS (B) to Lamp Drive (B) Board b. Lamp Drive (B) Board to CN5004 (POWER RELAY Board) c. CN5002 (POWER RELAY Board) to CN4008 (DRIVE Board) d. CN4001 (DRIVE Board) to CN5033 (POWER RELAY Board) e. CN5032 (POWER RELAY Board) to CN1012 (CONTROL Board) f. CN5001 (POWER RELAY Board) to CN4005 (DRIVE Board) g. CN4003 (DRIVE Board) to CN802 (POWER Board) 3. Check the lamp control signals to the CIS (B) → CN5004-1st pin: 24 V → CN5004-2nd pin: 5 V (When lamp is ON) 4. Replace faulty parts or boards.	
					3. Pixel data from CIS (B) or image processing circuit have some problems.	1. Check the following connection and soldering condition on each connector. a. CIS (B) to CN3006 (CIS (B) RELAY Board): **Only for KV-S3065CW Series** b. CIS (B) to CN3007 (CIS (B) RELAY Board): **Only for KV-S3065CL Series** c. CN3004 (CIS (B) RELAY Board) to CN1004 (CONTROL Board) d. CN3005 (CIS (B) RELAY Board) to CN1005 (CONTROL Board) e. CN1000 (CONTROL Board) to CN2000 (INTERFACE Board) 2. Check the following CIS timing signals on the CIS (B) RELAY Board are normal. → CN3006-34th, 35th pins: 5 MHz : **Only for KV-S3065CW Series** → CN3007-28th, 29th pins: 5 MHz : **Only for KV-S3065CL Series** 3. Check the soldering condition of the IC1012, IC1013, IC1024, and their surrounding circuit on the CONTROL Board. 4. Check the soldering condition of the IC1008, IC1009, and their surrounding circuit on the CONTROL Board. 5. Check the soldering condition of the IC2046 and its surrounding circuit on the INTERFACE Board. 6. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F63 (Back side black level error)	53	00	00	00	Pixel data from CIS (B) or image processing circuit have some problems.	1. Check the following connection and soldering condition on each connector. a. CIS (B) to CN3006 (CIS (B) RELAY Board): **Only for KV-S3065CW Series** b. CIS (B) to CN3007 (CIS (B) RELAY Board): **Only for KV-S3065CL Series** c. CN3004 (CIS (B) RELAY Board) to CN1004 (CONTROL Board) d. CN3005 (CIS (B) RELAY Board) to CN1005 (CONTROL Board) e. CN1000 (CONTROL Board) to CN2000 (INTERFACE Board) 2. Check the following CIS timing signals on the CIS (B) RELAY Board are normal. → CN3006-34th, 35th pins: 5 MHz : **Only for KV-S3065CW Series** → CN3007-28th, 29th pins: 5 MHz : **Only for KV-S3065CL Series** 3. Check the soldering condition of the IC1012, IC1013, IC1024, and their surrounding circuit on the CONTROL Board. 4. Check the soldering condition of the IC1008, IC1009, and their surrounding circuit on the CONTROL Board. 5. Check the soldering condition of the IC2046 and its surrounding circuit on the INTERFACE Board. 6. Replace faulty parts or boards.	

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Error Code					Possible Cause	Check Point	Remarks
Classified Code	ST1	ST2	ST3	ST4			
F80 (Double Feed Detector adjustment error)	60	00	00	00	1. Double Feed Detector (G) does not work, properly.	1. Execute **Double Feed** test in Sec.9.3.6 to check the detector condition. 2. Check whether the Double Feed Detector (G) is aligned properly. 3. Check the following connection and soldering condition on each connector. a. Double Feed Detector (G) to CN5031 (RELAY (UPPER) Board) b. CN5022 (RELAY (UPPER) Board) to CN1014 (CONTROL Board) 4. Check the following parts' soldering condition to repair it. a. CONTROL Board IC1024 (43, 44, 45th pins), IC1018 b. RELAY (UPPER) Board IC5013, Q5018, Q5020, Q5021, Q5022, Q5024, Q5025, Q5027, Q5028, Q5029, and the surround circuit 5. Check the following signals. a. DC 24V signal (CN5022-9th pin) b. JS_CLK (CN5022-11th pin) → 200 kHz c. USOUND (CN5031-1st pin) → 200 kHz 6. Replace faulty parts or boards.	
					2. Double Feed Detector (R) does not work, properly.	1. Execute **Double Feed** test in Sec.9.3.6 to check the detector condition. 2. Check whether the Double Feed Detector (R) is aligned properly. 3. Check the following connection and soldering condition on each connector. a. Double Feed Detector (R) to CN5011 (RELAY (LOWER) Board) b. CN5007 (RELAY (LOWER) Board) to CN1013 (CONTROL Board) 4. Check the following parts' soldering condition to repair it. a. CONTROL Board IC1024 (117th pin) b. RELAY (LOWER) Board IC5000, IC5001, Q5005, Q5006, and the surround circuit 5. Check the following signals on the RELAY (LOWER) Board. a. IC5001-7th pin: DC 12 V b. IC5000-7th pin: See Fig.10.2.5. 6. Replace faulty parts or boards.	

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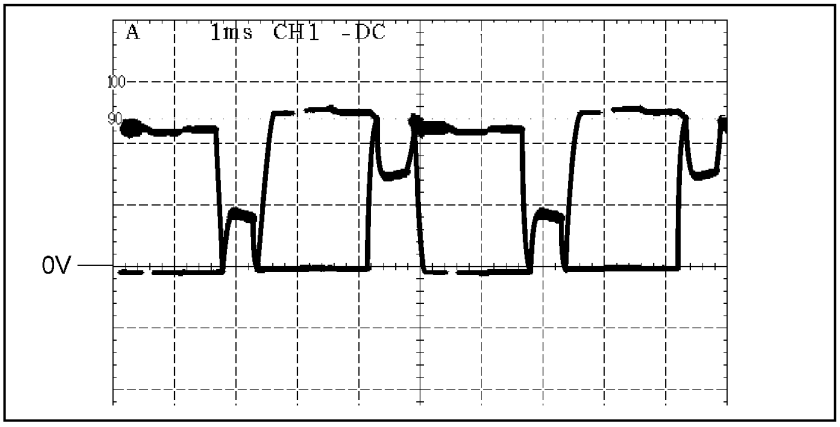


Fig.10.2.1

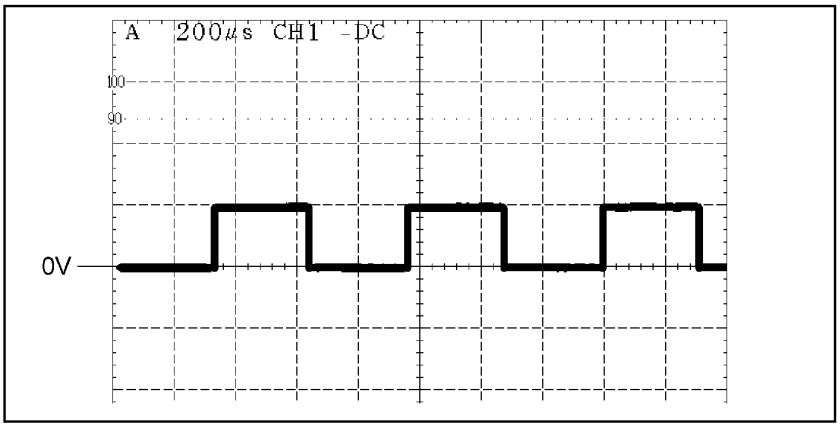


Fig.10.2.2

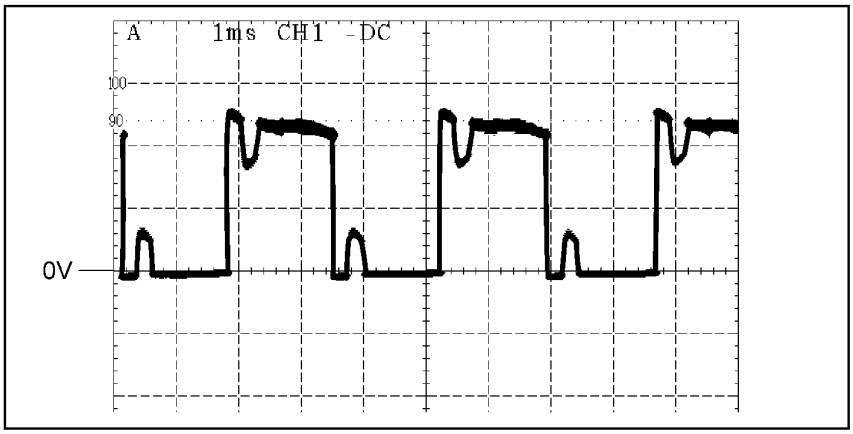


Fig.10.2.3

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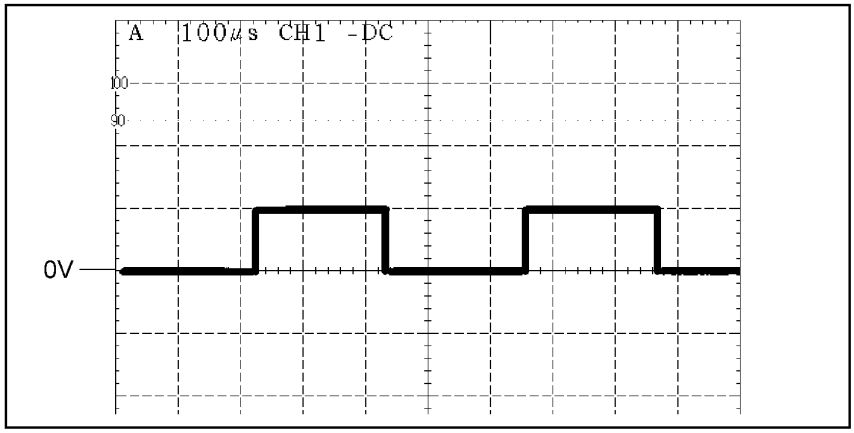


Fig.10.2.4

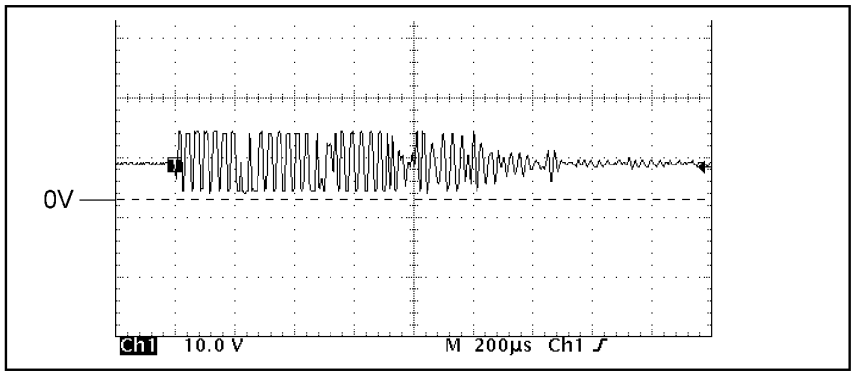
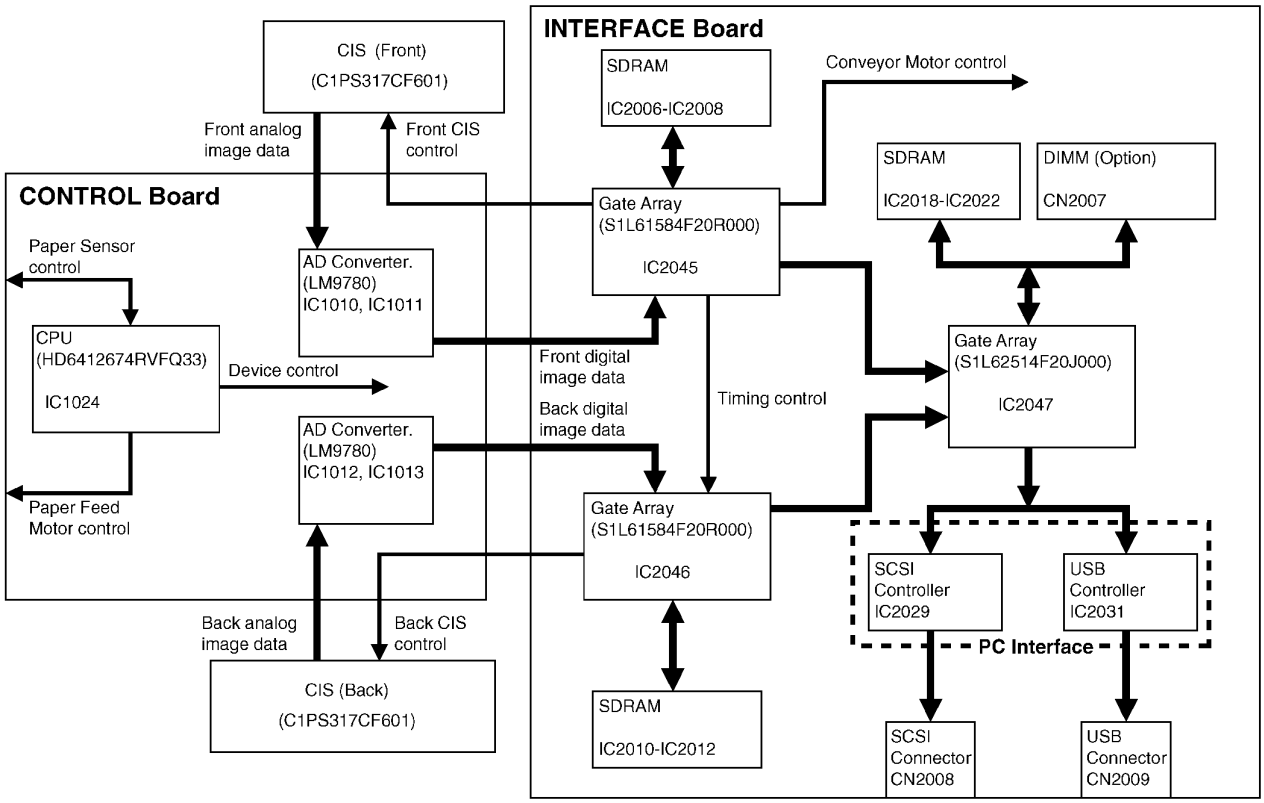


Fig.10.2.5

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11 CIRCUIT DESCRIPTION

11.1. Block Diagram-1 (Image Processing)



On this system, CPU (IC1024) controls the operation for Interface Controllers (SCSI, USB), Gate Arrays (IC2045, IC2046, IC2047), Sensors (Paper Sensor and others), Motors (Paper Feed, Conveyor, Carriage)

Motor pulse signals for the paper feed scanning on the ADF mode are provided from the CPU (IC1024), directly.

On the other hand, motor pulse signals for conveying paper on the ADF mode are provided from the Gate Array (IC2045).

This scanner has 2 CISs (CIS (Front), CIS (Back)) to scan image signals for front and back sides respectively.

Both of them are used for duplex scanning on the ADF mode. (When scanning on the Flatbed, only a CIS (Front) is available)

The Gate Array (IC2045) works as the controller of CIS (Front) and AD converters (IC1010, IC1011) to preprocess the front image data.

And the Gate Array (IC2046) works as the controller of CIS (Back) and AD converters (IC1012, IC1013) to preprocess the back image data.

After finishing this, the Gate Array (IC2047) postprocesses data from the Gate Arrays (IC2045 and IC2046) respectively to be binary or compressed data, and to be sent to PC via PC Interface (USB or SCSI).

Image processing is as follows.

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(Image Processing)

1. At first, according to the Front CIS control signal from the Gate Array (IC2045), analog pixel data are transmitted from the CIS (Front) to the AD Converter (IC1010, IC1011).

 And also according to Back CIS control signal from the Gate Array (IC2046), analog pixel data are transmitted from the CIS (Back) to the AD Converter (IC1012, IC1013).

2. The AD Converters (IC1010, IC1011) and (IC1012, IC1013) convert the analog pixel data to the digital, respectively.

3. The digital data on the front side are transmitted to the Gate Array (IC2045).

 The Gate Array (IC2045) enforces shading correction, line correction, and Dpi transformation upon the data, using SDRAM (IC2006, IC2007, IC2008).

 And the corrected data are transmitted to the Gate Array (IC2047).

 In parallel, to the back side data from AD Converters (IC1012, IC1013), the Gate Array (IC2046) enforces shading correction, line correction, and Dpi transformation upon the data, using SDRAM (IC2010, IC2011, IC2012).

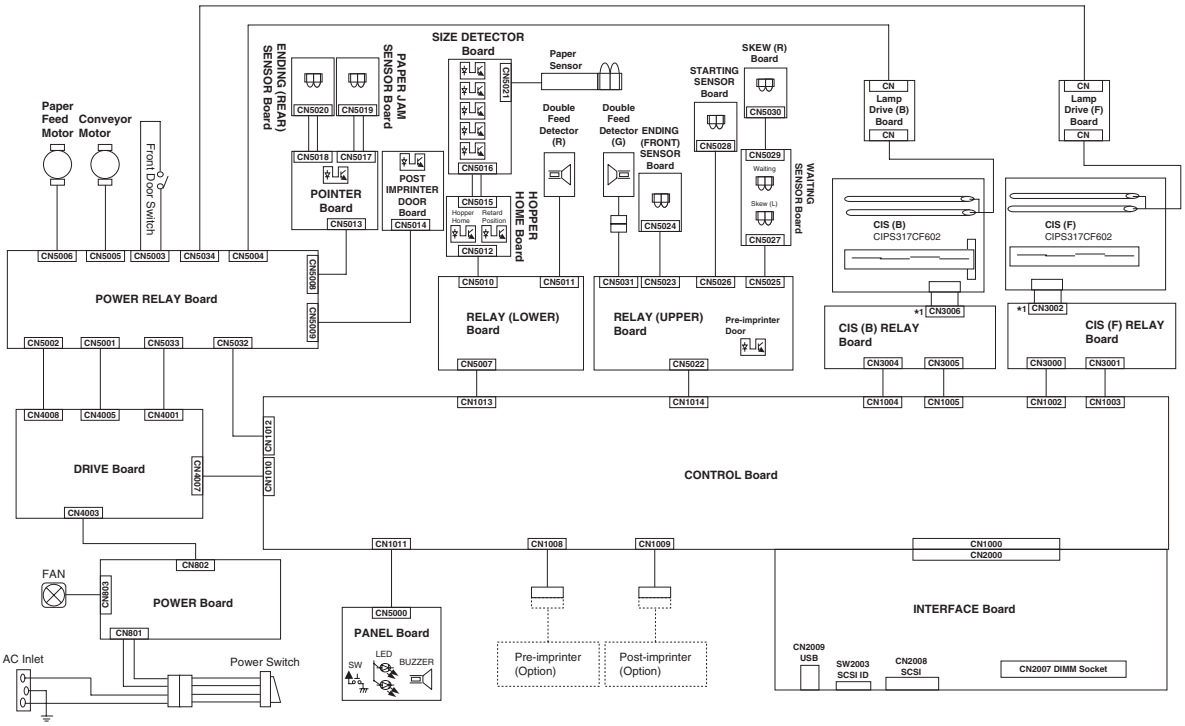
 And the corrected data are transmitted to the Gate Array (IC2047).

4. To the above front and back sides' data, the Gate Array (IC2047) performs binary processing (simple binary, auto binary, dither, error diffusion), color, or gray scale image processing (MTF, Moiré Reduction and others), and memorizes the processed data into SDRAM (IC2018, IC2019, IC2020, IC2021, and IC2022) and/or DIMM (mounted to CN2007 additionally, as required).

5. After executing compression process (Binary: MH, MR, or MMR / Color or Gray-scale: JPEG) to the stored data in the SDRAM (IC2018 to IC2022) according to the command from PC, the data are transmitted to PC via PC Interface (SCSI Controller (IC2029) or USB (IC2031)).

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11.2. Block Diagram-2 (Board)



Note: *1

Some CN location numbers of KV-S3065CL Series are different from that of KV-S3065CW Series as follows.

(KV-S3065CW Series)		(KV-S3065CL Series)
CN3002	➡	CN3003
CN3006	➡	CN3007
CIPS317CF602	➡	CIPS237CF600

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11.3. Explanation of Connector

CN1000 [CONTROL Board] - CN2000 [INTERFACE Board]

Pin No.		Signal Name	Description
CN1000	CN2000		
1	1	+5VD	+5 V
2	2	+5VD	+5 V
3	3	GND	Ground
4	4	GND	Ground
5	5	PM_F	Front CIS clock (5 MHz)
6	6	PRS_F	Front CIS reset pulse
7	7	PCP_F	Front CIS clamp pulse
8	8	GND	Ground
9	9	PSH_F	Front CIS shift pulse
10	10	PST_F	Front CIS storage pulse
11	11	PICG_F	Front CIS ICG pulse
12	12	GND	Ground
13	13	A_DOUT (0)	Front CIS CH1-8 digital data [0]
14	14	A_DOUT (1)	Front CIS CH1-8 digital data [1]
15	15	A_DOUT (2)	Front CIS CH1-8 digital data [2]
16	16	A_DOUT (3)	Front CIS CH1-8 digital data [3]
17	17	GND	Ground
18	18	A_DOUT (4)	Front CIS CH1-8 digital data [4]
19	19	A_DOUT (5)	Front CIS CH1-8 digital data [5]
20	20	A_DOUT (6)	Front CIS CH1-8 digital data [6]
21	21	A_DOUT (7)	Front CIS CH1-8 digital data [7]
22	22	GND	Ground
23	23	A_DOUT (8)	Front CIS CH1-8 digital data [8]
24	24	A_DOUT (9)	Front CIS CH1-8 digital data [9]
25	25	GND	Ground
26	26	B_DOUT (0)	Front CIS CH9-16 digital data [0]
27	27	B_DOUT (1)	Front CIS CH9-16 digital data [1]
28	28	B_DOUT (2)	Front CIS CH9-16 digital data [2]
29	29	B_DOUT (3)	Front CIS CH9-16 digital data [3]
30	30	GND	Ground
31	31	B_DOUT (4)	Front CIS CH9-16 digital data [4]
32	32	B_DOUT (5)	Front CIS CH9-16 digital data [5]
33	33	B_DOUT (6)	Front CIS CH9-16 digital data [6]
34	34	B_DOUT (7)	Front CIS CH9-16 digital data [7]
35	35	GND	Ground
36	36	B_DOUT (8)	Front CIS CH9-16 digital data [8]
37	37	B_DOUT (9)	Front CIS CH9-16 digital data [9]
38	38	+5VD	+5 V
39	39	+5VD	+5 V
40	40	GND	Ground
41	41	GND	Ground
42	42	PM_R	Back CIS clock (5 MHz)
43	43	PRS_R	Back CIS reset pulse
44	44	PCP_R	Back CIS clamp pulse
45	45	GND	Ground
46	46	PSH_R	Back CIS shift pulse
47	47	PST_R	Back CIS storage pulse
48	48	PICG_R	Back CIS ICG pulse
49	49	GND	Ground
50	50	C_DOUT (0)	Back CIS CH1-8 digital data [0]
51	51	C_DOUT (1)	Back CIS CH1-8 digital data [1]
52	52	C_DOUT (2)	Back CIS CH1-8 digital data [2]
53	53	C_DOUT (3)	Back CIS CH1-8 digital data [3]
54	54	GND	Ground
55	55	C_DOUT (4)	Back CIS CH1-8 digital data [4]
56	56	C_DOUT (5)	Back CIS CH1-8 digital data [5]
57	57	C_DOUT (6)	Back CIS CH1-8 digital data [6]
58	58	C_DOUT (7)	Back CIS CH1-8 digital data [7]

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Pin No.		Signal Name	Description
CN1000	CN2000		
59	59	GND	Ground
60	60	C_DOUT (8)	Back CIS CH1-8 digital data [8]
61	61	C_DOUT (9)	Back CIS CH1-8 digital data [9]
62	62	GND	Ground
63	63	D_DOUT (0)	Back CIS CH9-16 digital data [0]
64	64	D_DOUT (1)	Back CIS CH9-16 digital data [1]
65	65	D_DOUT (2)	Back CIS CH9-16 digital data [2]
66	66	D_DOUT (3)	Back CIS CH9-16 digital data [3]
67	67	GND	Ground
68	68	D_DOUT (4)	Back CIS CH9-16 digital data [4]
69	69	D_DOUT (5)	Back CIS CH9-16 digital data [5]
70	70	D_DOUT (6)	Back CIS CH9-16 digital data [6]
71	71	D_DOUT (7)	Back CIS CH9-16 digital data [7]
72	72	GND	Ground
73	73	D_DOUT (8)	Back CIS CH9-16 digital data [8]
74	74	D_DOUT (9)	Back CIS CH9-16 digital data [9]
75	75	GND	Ground
76	76	N.C.	Not used
77	77	+3VD	+3.3 V
78	78	+3VD	+3.3 V
79	79	MCLK_F	Front ADC master clock (40 MHz)
80	80	CLPIN_F	Front ADC sample/hold clamp pulse
81	81	BOS_F	Front ADC Begining of scan pulse
82	82	GND	Ground
83	83	MCLK_R	Back ADC master clock (40 MHz)
84	84	CLPIN_R	Back ADC sample/hold clamp pulse
85	85	BOS_R	Back ADC Begining of scan pulse
86	86	GND	Ground
87	87	+3VD	+3.3 V
88	88	+3VD	+3.3 V
89	89	CPU D (8)	CPU data [8]
90	90	CPU D (9)	CPU data [9]
91	91	CPU D (10)	CPU data [10]
92	92	CPU D (11)	CPU data [11]
93	93	CPU D (12)	CPU data [12]
94	94	CPU D (13)	CPU data [13]
95	95	CPU D (14)	CPU data [14]
96	96	CPU D (15)	CPU data [15]
97	97	GND	Ground
98	98	GND	Ground
99	99	CPU A (0)	CPU address [0]
100	100	CPU A (1)	CPU address [1]
101	101	CPU A (2)	CPU address [2]
102	102	CPU A (3)	CPU address [3]
103	103	CPU A (4)	CPU address [4]
104	104	CPU A (5)	CPU address [5]
105	105	CPU A (6)	CPU address [6]
106	106	CPU A (7)	CPU address [7]
107	107	CPU A (8)	CPU address [8]
108	108	CPU A (9)	CPU address [9]
109	109	Res (CPU A10)	Reserve (CPU address [10])
110	110	Res (CPU A11)	Reserve (CPU address [11])
111	111	+3VD	+3.3 V
112	112	+3VD	+3.3 V
113	113	*HWR	CPU high byte write strobe
114	114	*LWR	CPU low byte write strobe
115	115	*RD	CPU read strobe
116	116	*AS	CPU address strobe

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Pin No.		Signal Name	Description
CN1000	CN2000		
117	117	GND	Ground
118	118	GND	Ground
119	119	*CS3	CPU area 3 chip select
120	120	*CS4	CPU area 4 chip select
121	121	*CS5SPC	SCSI chip select
122	122	*CSUSB	USB chip select
123	123	*IF _RD	INTERFACE Board version & SCSI-ID read
124	124	*TRMPWR	SCSI terminator power switch
125	125	R_MCLK	Carriage motor clock
126	126	C_MCLK	Conveyor motor clock
127	127	LED CLK	LED data control clock
128	128	LED DATA	LED data
129	129	*WAIT	CPU wait signal
130	130	GND	Ground
131	131	*INT0	CPU interrupt 0 (USB)
132	132	*INT1	CPU interrupt 1 (USB)
133	133	*INT3	CPU interrupt 3 (Front GA-SENSOR)
134	134	*INT4	CPU interrupt 4 (Back GA-SENSOR)
135	135	*INT5	CPU interrupt 5 (GA-IMAGE)
136	136	*RESET	System reset
137	137	TXD0	Serial interface TXD 0
138	138	RXD0	Serial interface RXD 0
139	139	GND	Ground
140	140	GND	Ground

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CN1002 [CONTROL Board] - CN3000 [CIS (F) RELAY Board]

Pin No.		Signal Name	Description
CN1002	CN3000		
1	1	+12 V	+12 V
2	2	+12 V	+12 V
3	3	+5 V	+5 V
4	4	+5 V	+5 V
5	5	M+	Front CIS clock LVDS (+) (5 MHz)
6	6	M-	Front CIS clock LVDS (-) (5 MHz)
7	7	RS+	Front CIS reset pulse LVDS (+)
8	8	RS-	Front CIS reset pulse LVDS (-)
9	9	CP+	Front CIS clamp pulse LVDS (+)
10	10	CP-	Front CIS clamp pulse LVDS (-)
11	11	GND	Ground
12	12	GND	Ground
13	13	SH	Front CIS shift pulse
14	14	ST	Front CIS storage pulse
15	15	ICG	Front CIS ICG pulse
16	16	GND	Ground

CN1003 [CONTROL Board] - CN3001 [CIS (F) RELAY Board]

Pin No.		Signal Name	Description
CN1003	CN3001		
1	1	OS1	Front CIS CH1 output
2	2	GND	Ground
3	3	OS2	Front CIS CH2 output
4	4	GND	Ground
5	5	OS3	Front CIS CH3 output
6	6	GND	Ground
7	7	OS4	Front CIS CH4 output
8	8	GND	Ground
9	9	OS5	Front CIS CH5 output
10	10	GND	Ground
11	11	OS6	Front CIS CH6 output
12	12	GND	Ground
13	13	OS7	Front CIS CH7 output
14	14	GND	Ground
15	15	OS8	Front CIS CH8 output
16	16	GND	Ground
17	17	OS9	Front CIS CH9 output
18	18	GND	Ground
19	19	OS10	Front CIS CH10 output
20	20	GND	Ground
21	21	OS11	Front CIS CH11 output
22	22	GND	Ground
23	23	OS12	Front CIS CH12 output
24	24	GND	Ground
25	25	OS13	Front CIS CH13 output
26	26	GND	Ground
27	27	OS14	Front CIS CH14 output
28	28	GND	Ground
29	29	OS15	Front CIS CH15 output
30	30	GND	Ground
31	31	OS16	Front CIS CH16 output
32	32	GND	Ground

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CN1004 [CONTROL Board] - CN3004 [CIS (B) RELAY Board]

Pin No.		Signal Name	Description
CN1004	CN3004		
1	1	+12 V	+12 V
2	2	+12 V	+12 V
3	3	+5 V	+5 V
4	4	+5 V	+5 V
5	5	M+	Back CIS clock LVDS (+) (5 MHz)
6	6	M-	Back CIS clock LVDS (-) (5 MHz)
7	7	RS+	Back CIS reset pulse LVDS (+)
8	8	RS-	Back CIS reset pulse LVDS (-)
9	9	CP+	Back CIS clamp pulse LVDS (+)
10	10	CP-	Back CIS clamp pulse LVDS (-)
11	11	GND	Ground
12	12	GND	Ground
13	13	SH	Back CIS shift pulse
14	14	ST	Back CIS storage pulse
15	15	ICG	Back CIS ICG pulse
16	16	GND	Ground
17	17	A4/*A3	A4 or A3 CIS detect
18	18	*DUPLEX	Duplex equipment detect
19	19	OS1	Back CIS CH1 output
20	20	GND	Ground
21	21	OS2	Back CIS CH2 output
22	22	GND	Ground

CN1005 [CONTROL Board] - CN3005 [CIS (B) RELAY Board]

Pin No.		Signal Name	Description
CN1005	CN3005		
1	1	OS3	Back CIS CH3 output
2	2	GND	Ground
3	3	OS4	Back CIS CH4 output
4	4	GND	Ground
5	5	OS5	Back CIS CH5 output
6	6	GND	Ground
7	7	OS6	Back CIS CH6 output
8	8	GND	Ground
9	9	OS7	Back CIS CH7 output
10	10	GND	Ground
11	11	OS8	Back CIS CH8 output
12	12	GND	Ground
13	13	OS9	Back CIS CH9 output
14	14	GND	Ground
15	15	OS10	Back CIS CH10 output
16	16	GND	Ground
17	17	OS11	Back CIS CH11 output
18	18	GND	Ground
19	19	OS12	Back CIS CH12 output
20	20	GND	Ground
21	21	OS13	Back CIS CH13 output
22	22	GND	Ground
23	23	OS14	Back CIS CH14 output
24	24	GND	Ground
25	25	OS15	Back CIS CH15 output
26	26	GND	Ground
27	27	OS16	Back CIS CH16 output
28	28	GND	Ground

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CN1008 [CONTROL Board] - [Pre-imprinter (Option)]

Pin No.		Signal Name	Description
CN1008	Pre-imprinter (Option)		
1	1	+3 V	+3.3 V
2	2	GND	Ground
3	3	IPD (15)	CPU data for pre_imprinter [15]
4	4	IPD (14)	CPU data for pre_imprinter [14]
5	5	IPD (13)	CPU data for pre_imprinter [13]
6	6	IPD (12)	CPU data for pre_mprinter [12]
7	7	IPD (11)	CPU data for pre_imprinter [11]
8	8	IPD (10)	CPU data for pre_imprinter [10]
9	9	IPD (9)	CPU data for pre_imprinter [9]
10	10	IPD (8)	CPU data for pre_imprinter [8]
11	11	IPADR (0)	CPU address for pre_imprinter [0]
12	12	*IP_HWR	CPU write signal for pre_imprinter
13	13	IMPCLK	Pre_imprinter clock
14	14	*CSIMPR1	Pre_imprnter chip select
15	15	*IP_RD	CPU read signal for pre_imprinter
16	16	*RESET	System reset
17	17	GND	Ground
18	18	24VIL	+24 V (Interlock switch)

CN1009 [CONTROL Board] - [Post-imprinter (Option)]

Pin No.		Signal Name	Description
CN1009	Post-imprinter (Option)		
1	1	N.C.	Not used
2	2	N.C.	Not used
3	3	+3 V	+3.3 V
4	4	GND	Ground
5	5	IPD (15)	CPU data for post_imprinter [15]
6	6	IPD (14)	CPU data for post_imprinter [14]
7	7	IPD (13)	CPU data for post_imprinter [13]
8	8	IPD (12)	CPU data for post_mprinter [12]
9	9	IPD (11)	CPU data for post_imprinter [11]
10	10	IPD (10)	CPU data for post_imprinter [10]
11	11	IPD (9)	CPU data for post_imprinter [9]
12	12	IPD (8)	CPU data for post_imprinter [8]
13	13	IPADR (0)	CPU address for post_imprinter [0]
14	14	*IP_HWR	CPU write signal for post_imprinter
15	15	IMPCLK	Post_imprinter clock
16	16	*CSIMPR1	Post_imprnter chip select
17	17	*IP_RD	CPU read signal for post_imprinter
18	18	*RESET	System reset
19	19	GND	Ground
20	20	24VIL	+24 V (Interlock switch)
21	21	N.C.	Not used
22	22	N.C.	Not used
23	23	N.C.	Not used
24	24	N.C.	Not used

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CN1010 [CONTROL Board] - CN4007 [DRIVE Board]

Pin No.		Signal Name	Description
CN1010	CN4007		
1	1	24VIL	+24 V (interlock switch)
2	2	PGND	Ground
3	3	N.C.	Not used
4	4	+15 V	+15.5 V
5	5	GND	Ground
6	6	+5 V	+5 V
7	7	+5 V	+5 V
8	8	GND	Ground
9	9	GND	Ground
10	10	+3 V	+3.3 V
11	11	+3 V	+3.3 V
12	12	GND	Ground
13	13	GND	Ground

CN1011 [CONTROL Board] - CN5000 [PANEL Board]

Pin No.		Signal Name	Description
CN1011	CN5000		
1	1	BUZZER	Not used
2	2	*GRN_LED	LED (Green) enable: (L: LED lighting)
3	3	*RED_LED	LED (Red) enable: (L: LED lighting)
4	4	*KEY1	Key input
5	5	5VP	+5 V
6	6	12V_1	+12 V
7	7	GND	Ground
8	8	GND	Ground

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CN1012 [CONTROL Board] - CN5032 [POWER RELAY Board]

Pin No.		Signal Name	Description
CN1012	CN5032		
1	1	12V_OVP1	+12 V
2	2	12V_OVP2	+12 V
3	3	DOOR1	Front door switch (H: Door open)
4	4	GND	Ground
5	5	FLAMP_ON5	Front lamp switch
6	6	BLAMP_ON	Back lamp switch
7	7	DRV_VER0	DRIVE Board version [0]
8	8	DRV_VER1	DRIVE Board version [1]
9	9	FANERR	Fan error
10	10	*SLEEP1	Sleep signal 1
11	11	*SLEEP3	Sleep signal 2
12	12	F_M1	Feed motor mode [1]
13	13	F_M2	Feed motor mode [2]
14	14	F_M3	Feed motor mode [3]
15	15	F_CW	Feed motor CW/CCW
16	16	F_ENABLE	Feed motor enable
17	17	F_MCLK	Feed motor clock
18	18	F_MVRE	Feed motor current control
19	19	GND	Ground
20	20	C_M1	Conveyor motor mode [1]
21	21	C_M2	Conveyor motor mode [2]
22	22	C_M3	Conveyor motor mode [3]
23	23	C_CW	Conveyor motor CW/CCW
24	24	C_ENABLE	Conveyor motor enable
25	25	C_MCLK	Conveyor motor clock
26	26	C_MVRE	Conveyor motor current control
27	27	*RESET3	Reset
28	28	5VSLP	+5 V
29	29	POST_IMPDOOR	Post_imprinter door
30	30	JAM	JAM sensor
31	31	R_ENDING	Ending (Rear) sensor
32	32	POINTER	Pointer sensor
33	33	GND	Ground
34	34	GND	Ground

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CN1013 [CONTROL Board] - CN5007 [RELAY (LOWER) Board]

Pin No.		Signal Name	Description
CN1013	CN5007		
1	1	GND	Ground
2	2	5VSLP	+5 V
3	3	GND	Ground
4	4	5VSLP	+5 V
5	5	*P_EXIST	Paper sensor
6	6	PSIZE5	Size detector 5
7	7	PSIZE4	Size detector 4
8	8	PSIZE3	Size detector 3
9	9	PSIZE2	Size detector 2
10	10	PSIZE1	Size detector 1
11	11	GND	Ground
12	12	HOPPER	Hopper detector
13	13	RETARD_REL	Retard release
14	14	5VSLP	+5 V
15	15	GND	Ground
16	16	5VSLP	+5 V
17	17	JS_DATA	Double feed detector (R)
18	18	12V_2	+12 V
19	19	GND	Ground
20	20	12V_2	+12 V

CN1014 [CONTROL Board] - CN5022 [RELAY (UPPER) Board]

Pin No.		Signal Name	Description
CN1014	CN5022		
1	1	5VSLP	+5 V
2	2	F_ENDING	Ending (FRONT) sensor
3	3	STARTING	STARTING sensor
4	4	SKEW_R	Skew (R) sensor
5	5	WAITING	Waiting sensor
6	6	SKEW_L	Skew (L) sensor
7	7	PRE_IMPDOOR	Pre_imprinter door detector
8	8	GND	Ground
9	9	24VIL	+24 V (interlock switch)
10	10	JS_GAIN1	Double feed detector generate gain
11	11	JS_CLK	Double feed detector generate clock
12	12	GND	Ground

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CN2007 [INTERFACE Board]: DIMM

Pin No.	Signal Name	Description
1	VSS	Ground
2	DQ0	SDRAM data [0]
3	DQ1	SDRAM data [1]
4	DQ2	SDRAM data [2]
5	DQ3	SDRAM data [3]
6	VDD	+3.3 V
7	DQ4	SDRAM data [4]
8	DQ5	SDRAM data [5]
9	DQ6	SDRAM data [6]
10	DQ7	SDRAM data [7]
11	DQ8	SDRAM data [8]
12	VSS	Ground
13	DQ9	SDRAM data [9]
14	DQ10	SDRAM data [10]
15	DQ11	SDRAM data [11]
16	DQ12	SDRAM data [12]
17	DQ13	SDRAM data [13]
18	VDD	+3.3 V
19	DQ14	SDRAM data [14]
20	DQ15	SDRAM data [15]
21	CB0 (N.C.)	Not used
22	CB1 (N.C.)	Not used
23	VSS	Ground
24	N.C.	Not used
25	N.C.	Not used
26	VDD	+3.3 V
27	*WE	DIMM write enable
28	DQMB0	Byte data mask 0
29	DQMB1	Byte data mask 1
30	*CS0	Chip select 0
31	DNU (N.C.)	Not used
32	VSS	Ground
33	A0	SDRAM address [0]
34	A2	SDRAM address [2]
35	A4	SDRAM address [4]
36	A6	SDRAM address [6]
37	A8	SDRAM address [8]
38	A10	SDRAM address [10]
39	BA1	Bank select address 1
40	VDD	+3.3 V
41	VDD	+3.3 V
42	CLK0	Clock input 0
43	VSS	Ground
44	DNU (N.C.)	Not used
45	*CS2	Chip select 2
46	DQMB2	Byte data mask 2
47	DQMB3	Byte data mask 3
48	DNU (N.C.)	Not used
49	VDD	+3.3 V
50	N.C.	Not used
51	N.C.	Not used
52	CB2	Not used
53	CB3	Not used
54	VSS	Ground
55	DQ16	SDRAM data [16]
56	DQ17	SDRAM data [17]

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Pin No.	Signal Name	Description
57	DQ18	SDRAM data [18]
58	DQ19	SDRAM data [19]
59	VDD	+3.3 V
60	DQ20	SDRAM data [20]
61	N.C.	Not used
62	N.C.	Not used
63	CKE1	Clock enable
64	VSS	Ground
65	DQ21	SDRAM data [21]
66	DQ22	SDRAM data [22]
67	DQ23	SDRAM data [23]
68	VSS	Ground
69	DQ24	SDRAM data [24]
70	DQ25	SDRAM data [25]
71	DQ26	SDRAM data [26]
72	DQ27	SDRAM data [27]
73	VDD	+3.3 V
74	DQ28	SDRAM data [28]
75	DQ29	SDRAM data [29]
76	DQ30	SDRAM data [30]
77	DQ31	SDRAM data [31]
78	VSS	Ground
79	CLK2	Clock input 2
80	N.C.	Not used
81	WP (N.C.)	Not used
82	SDA	Data input/output for serial presence detect
83	SCL	Clock input for serial presence detect
84	VDD	+3.3 V
85	VSS	Ground
86	DQ32	SDRAM data [32]
87	DQ33	SDRAM data [33]
88	DQ34	SDRAM data [34]
89	DQ35	SDRAM data [35]
90	VDD	+3.3 V
91	DQ36	SDRAM data [36]
92	DQ37	SDRAM data [37]
93	DQ38	SDRAM data [38]
94	DQ39	SDRAM data [39]
95	DQ40	SDRAM data [40]
96	VSS	Ground
97	DQ41	SDRAM data [41]
98	DQ42	SDRAM data [42]
99	DQ43	SDRAM data [43]
100	DQ44	SDRAM data [44]
101	DQ45	SDRAM data [45]
102	VDD	+3.3 V
103	DQ46	SDRAM data [46]
104	DQ47	SDRAM data [47]
105	CB4 (N.C.)	Not used
106	CB5 (N.C.)	Not used
107	VSS	Ground
108	N.C.	Not used
109	N.C.	Not used
110	VDD	+3.3 V
111	*CAS	Column address strobe
112	DQMB4	Byte data mask 4

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Pin No.	Signal Name	Description
113	DQMB5	Byte data mask 5
114	*CS1	Chip select 1
115	*RAS	Row address strobe
116	VSS	Ground
117	A1	SDRAM address [1]
118	A3	SDRAM address [3]
119	A5	SDRAM address [5]
120	A7	SDRAM address [7]
121	A9	SDRAM address [9]
122	BA0	Bank select address 0
123	A11	SDRAM address [11]
124	VDD	+3.3 V
125	CK1	Clock input 1
126	A12	SDRAM address [12]
127	VSS	Ground
128	CKE0	Clock enable 0
129	*CS3	Chip select 3
130	DQMB6	Byte data mask 6
131	DQMB7	Byte data mask 7
132	A13	SDRAM address [13]
133	VDD	+3.3 V
134	N.C.	Not used
135	N.C.	Not used
136	CB6	Not used
137	CB7	Not used
138	VSS	Ground
139	DQ48	SDRAM data [48]
140	DQ49	SDRAM data [49]
141	DQ50	SDRAM data [50]
142	DQ51	SDRAM data [51]
143	VDD	+3.3 V
144	DQ52	SDRAM data [52]
145	N.C.	Not used
146	N.C.	Not used
147	REGE (N.C.)	Not used
148	VSS	Ground
149	DQ53	SDRAM data [53]
150	DQ54	SDRAM data [54]
151	DQ55	SDRAM data [55]
152	VSS	Ground
153	DQ56	SDRAM data [56]
154	DQ57	SDRAM data [57]
155	DQ58	SDRAM data [58]
156	DQ59	SDRAM data [59]
157	VDD	+3.3 V
158	DQ60	SDRAM data [60]
159	DQ61	SDRAM data [61]
160	DQ62	SDRAM data [62]
161	DQ63	SDRAM data [63]
162	VSS	Ground
163	CK3	Clock input 3
164	N.C.	Not used
165	SA0	Address [0] input for EEPROM
166	SA1	Address [1] input for EEPROM
167	SA2	Address [2] input for EEPROM
168	VDD	+3.3 V

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CN2008 [INTERFACE Board]: SCSI Interface

Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	GND	Ground
4	GND	Ground
5	GND	Ground
6	GND	Ground
7	GND	Ground
8	GND	Ground
9	GND	Ground
10	GND	Ground
11	GND	Ground
12	N.C.	Not used
13	N.C.	Not used
14	N.C.	Not used
15	GND	Ground
16	GND	Ground
17	GND	Ground
18	GND	Ground
19	GND	Ground
20	GND	Ground
21	GND	Ground
22	GND	Ground
23	GND	Ground
24	GND	Ground
25	GND	Ground
26	DB (0)	SCSI data [0]
27	DB (1)	SCSI data [1]
28	DB (2)	SCSI data [2]
29	DB (3)	SCSI data [3]
30	DB (4)	SCSI data [4]
31	DB (5)	SCSI data [5]
32	DB (6)	SCSI data [6]
33	DB (7)	SCSI data [7]
34	*DBP	SCSI data parity
35	GND	Ground
36	GND	Ground
37	N.C.	Not used
38	TERM_ POWER	Terminator power
39	N.C.	Not used
40	GND	Ground
41	*ATN	SCSI control signal (Attention)
42	GND	Ground
43	*BSY	SCSI control signal (Busy)
44	*ACK	SCSI control signal (Acknowledge)
45	*RST	SCSI control signal (Reset)
46	*MSG	SCSI control signal (Message)
47	*SEL	SCSI control signal (Select)
48	*C/D	SCSI control signal (Control/data)
49	*REQ	SCSI control signal (Request)
50	*I/O	SCSI control signal (Input/Output)

CN2009 [INTERFACE Board]: USB Interface

Pin No.	Signal Name	Description
1	VBUS	USB bus detect signal
2	DM	USB data -
3	DP	USB data +
4	GND	Ground

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CN3002 [CIS (F) RELAY Board] - CIS (F): Only for KV-S3065CW Series

Pin No.		Signal Name	Description
CN3002	CIS (F)		
1	-	GND	Ground
2	-	F_OS16	Front CIS CH16 output
3	-	F_OS15	Front CIS CH15 output
4	-	GND	Ground
5	-	F_OS14	Front CIS CH14 output
6	-	F_OS13	Front CIS CH13 output
7	-	GND	Ground
8	-	F_OS12	Front CIS CH12 output
9	-	F_OS11	Front CIS CH11 output
10	-	GND	Ground
11	-	F_OS10	Front CIS CH10 output
12	-	F_OS9	Front CIS CH9 output
13	-	GND	Ground
14	-	F_OS8	Front CIS CH8 output
15	-	F_OS7	Front CIS CH7 output
16	-	GND	Ground
17	-	F_OS6	Front CIS CH6 output
18	-	F_OS5	Front CIS CH5 output
19	-	GND	Ground
20	-	F_OS4	Front CIS CH4 output
21	-	F_OS3	Front CIS CH3 output
22	-	GND	Ground
23	-	F_OS2	Front CIS CH2 output
24	-	F_OS1	Front CIS CH1 output
25	-	GND	Ground
26	-	F_ICG	Front CIS ICG pulse
27	-	F_ST	Front CIS storage pulse
28	-	F_SH	Front CIS shift pulse
29	-	GND	Ground
30	-	F_CP-	Front CIS clamp pulse LVDS (-)
31	-	F_CP+	Front CIS clamp pulse LVDS (+)
32	-	F_RS-	Front CIS reset pulse LVDS (-)
33	-	F_RS+	Front CIS reset pulse LVDS (+)
34	-	F_M-	Front CIS clock LVDS (-) (5 MHz)
35	-	F_M+	Front CIS clock LVDS (+) (5 MHz)
36	-	GND	Ground
37	-	5VP	+5 V
38	-	5VP	+5 V
39	-	+12V_1	+12 V
40	-	+12V_1	+12 V

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CN3003 [CIS (F) RELAY Board] - CIS (F): Only for KV-S3065CL Series

Pin No.		Signal Name	Description
CN3003	CIS (F)		
1	-	GND	Ground
2	-	F_OS12	Front CIS CH12 output
3	-	F_OS11	Front CIS CH11 output
4	-	GND	Ground
5	-	F_OS10	Front CIS CH10 output
6	-	F_OS9	Front CIS CH9 output
7	-	GND	Ground
8	-	F_OS8	Front CIS CH8 output
9	-	F_OS7	Front CIS CH7 output
10	-	GND	Ground
11	-	F_OS6	Front CIS CH6 output
12	-	F_OS5	Front CIS CH5 output
13	-	GND	Ground
14	-	F_OS4	Front CIS CH4 output
15	-	F_OS3	Front CIS CH3 output
16	-	GND	Ground
17	-	F_OS2	Front CIS CH2 output
18	-	F_OS1	Front CIS CH1 output
19	-	GND	Ground
20	-	F_ICG	Front CIS ICG pulse
21	-	F_ST	Front CIS storage pulse
22	-	F_SH	Front CIS shift pulse
23	-	GND	Ground
24	-	F_CP-	Front CIS clamp pulse LVDS (-)
25	-	F_CP+	Front CIS clamp pulse LVDS (+)
26	-	F_RS-	Front CIS reset pulse LVDS (-)
27	-	F_RS+	Front CIS reset pulse LVDS (+)
28	-	F_M-	Front CIS clock LVDS (-) (5 MHz)
29	-	F_M+	Front CIS clock LVDS (+) (5 MHz)
30	-	GND	Ground
31	-	5VP	+5 V
32	-	5VP	+5 V
33	-	+12V_1	+12 V
34	-	+12V_1	+12 V

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CN3006 [CIS (B) RELAY Board] - CIS (B): Only for KV-S3065CW Series

Pin No.		Signal Name	Description
CN3006	CIS (B)		
1	-	GND	Ground
2	-	B_OS16	Back CIS CH16 output
3	-	B_OS15	Back CIS CH15 output
4	-	GND	Ground
5	-	B_OS14	Back CIS CH14 output
6	-	B_OS13	Back CIS CH13 output
7	-	GND	Ground
8	-	B_OS12	Back CIS CH12 output
9	-	B_OS11	Back CIS CH11 output
10	-	GND	Ground
11	-	B_OS10	Back CIS CH10 output
12	-	B_OS9	Back CIS CH9 output
13	-	GND	Ground
14	-	B_OS8	Back CIS CH8 output
15	-	B_OS7	Back CIS CH7 output
16	-	GND	Ground
17	-	B_OS6	Back CIS CH6 output
18	-	B_OS5	Back CIS CH5 output
19	-	GND	Ground
20	-	B_OS4	Back CIS CH4 output
21	-	B_OS3	Back CIS CH3 output
22	-	GND	Ground
23	-	B_OS2	Back CIS CH2 output
24	-	B_OS1	Back CIS CH1 output
25	-	GND	Ground
26	-	B_ICG	Back CIS ICG pulse
27	-	B_ST	Back CIS storage pulse
28	-	B_SH	Back CIS shift pulse
29	-	GND	Ground
30	-	B_CP-	Back CIS clamp pulse LVDS (-)
31	-	B_CP+	Back CIS clamp pulse LVDS (+)
32	-	B_RS-	Back CIS reset pulse LVDS (-)
33	-	B_RS+	Back CIS reset pulse LVDS (+)
34	-	B_M-	Back CIS clock LVDS (-) (5 MHz)
35	-	B_M+	Back CIS clock LVDS (+) (5 MHz)
36	-	GND	Ground
37	-	5VP	+5 V
38	-	5VP	+5 V
39	-	12V_2	+12 V
40	-	12V_2	+12 V

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CN3007 [CIS (B) RELAY Board] - CIS (B): Only for KV-S3065CL Series

Pin No.		Signal Name	Description
CN3007	CIS (B)		
1	-	GND	Ground
2	-	B_OS12	Back CIS CH12 output
3	-	B_OS11	Back CIS CH11 output
4	-	GND	Ground
5	-	B_OS10	Back CIS CH10 output
6	-	B_OS9	Back CIS CH9 output
7	-	GND	Ground
8	-	B_OS8	Back CIS CH8 output
9	-	B_OS7	Back CIS CH7 output
10	-	GND	Ground
11	-	B_OS6	Back CIS CH6 output
12	-	B_OS5	Back CIS CH5 output
13	-	GND	Ground
14	-	B_OS4	Back CIS CH4 output
15	-	B_OS3	Back CIS CH3 output
16	-	GND	Ground
17	-	B_OS2	Back CIS CH2 output
18	-	B_OS1	Back CIS CH1 output
19	-	GND	Ground
20	-	B_ICG	Back CIS ICG pulse
21	-	B_ST	Back CIS storage pulse
22	-	B_SH	Back CIS shift pulse
23	-	GND	Ground
24	-	B_CP-	Back CIS clamp pulse LVDS (-)
25	-	B_CP+	Back CIS clamp pulse LVDS (+)
26	-	B_RS-	Back CIS reset pulse LVDS (-)
27	-	B_RS+	Back CIS reset pulse LVDS (+)
28	-	B_M-	Back CIS clock LVDS (-) (5 MHz)
29	-	B_M+	Back CIS clock LVDS (+) (5 MHz)
30	-	GND	Ground
31	-	5VP	+5 V
32	-	5VP	+5 V
33	-	+12V_2	+12 V
34	-	+12V_2	+12 V

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CN4001 [DRIVE Board] - CN5033 [POWER RELAY Board]

Pin No.		Signal Name	Description
CN4001	CN5033		
1	36	*RESET	Reset
2	35	GND	Ground
3	34	R_MVRE	Not used
4	33	R_MCLK	Not used
5	32	R_ENABLE	Not used
6	31	R_CW	Not used
7	30	R_M3	Not used
8	29	R_M2	Not used
9	28	R_M1	Not used
10	27	GND	Ground
11	26	C_MVRE	Conveyor motor current control
12	25	C_MCLK	Conveyor motor clock
13	24	C_ENABLE	Conveyor motor enable
14	23	C_CW	Conveyor motor CW/CCW
15	22	C_M3	Conveyor motor mode [3]
16	21	C_M2	Conveyor motor mode [2]
17	20	C_M1	Conveyor motor mode [1]
18	19	GND	Ground
19	18	F_MVRE	Feed motor current control
20	17	F_MCLK	Feed motor clock
21	16	F_ENABLE	Feed motor enable
22	15	F_CW	Feed motor CW/CCW
23	14	F_M3	Feed motor mode [3]
24	13	F_M2	Feed motor mode [2]
25	12	F_M1	Feed motor mode [1]
26	11	*SLEEP3	Sleep signal 2
27	10	*SLEEP1	Sleep signal 1
28	9	FANERR	Fan error
29	8	DRV_VER1	DRIVE Board version [1]
30	7	DRV_VER0	DRIVE Board version [0]
31	6	BLAMP_ON	Back lamp switch
32	5	N.C.	Not used
33	4	DOOR2	Not used
34	3	DOOR1	Front door switch (H: Door open)
35	2	12V_OVP2	+12 V
36	1	12V_OVP1	+12 V

CN4005 [DRIVE Board] - CN5001 [POWER RELAY Board]

Pin No.		Signal Name	Description
CN4005	CN5001		
1	1	24V	+24 V
2	2	24VIL	+24 V (Interlock switch)

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CN4008 [DRIVE Board] - CN5002 [POWER RELAY Board]

Pin No.		Signal Name	Description
CN4008	CN5002		
1	1	GND	Ground
2	2	BLAMP_ON5	Back lamp switch
3	3	*CA	Conveyor motor phase (A-)
4	4	CCOMA_MB	+24 V (interlock switch and Fuse)
5	5	CA	Conveyor motor phase (A+)
6	6	*CB	Conveyor motor phase (B-)
7	7	CCOMA_MB	+24 V (interlock switch and Fuse)
8	8	CB	Conveyor motor phase (B+)
9	9	*FA	Feed motor phase (A-)
10	10	FCOMA_MB	+24 V (interlock switch and Fuse)
11	11	FA	Feed motor phase (A+)
12	12	*FB	Feed motor phase (B-)
13	13	FCOMA_MB	+24 V (interlock switch and Fuse)
14	14	FB	Feed motor phase (B+)

CN5003 [POWER RELAY Board] - Front Door Switch

Pin No.		Signal Name	Description
CN5003	Front Door Switch		
1	-	24V	+24 V
2	-	24V	+24 V
3	-	24VIL	+24 V (Interlock switch)
4	-	24VIL	+24 V (Interlock switch)

CN5004 [POWER RELAY Board] - Lamp Drive (B) Board

Pin No.		Signal Name	Description
CN5004	Lamp Drive (B) Board		
1	-	24VIL	24 V
2	-	BLAMP_ON5	Back lamp switch
3	-	GND	Ground

CN5034 [POWER RELAY Board] - Lamp Drive (F) Board

Pin No.		Signal Name	Description
CN5034	Lamp Drive (F) Board		
1	-	24VIL	24 V
2	-	FLAMP_ON5	Front lamp switch
3	-	GND	Ground
4	-	GND	Not used

CN5005 [POWER RELAY Board] - Conveyor Motor

Pin No.		Signal Name	Description
CN5005	Conveyor Motor		
1	-	*CA	Conveyor motor phase (A-)
2	-	CCOMA	+24 V (interlock switch and Fuse)
3	-	CA	Conveyor motor phase (A+)
4	-	*CB	Conveyor motor phase (B-)
5	-	CCOMB	+24 V (interlock switch and Fuse)
6	-	CB	Conveyor motor phase (B+)

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CN5006 [POWER RELAY Board] - Paper Feed Motor

Pin No.		Signal Name	Description
CN5006	Feed Motor		
1	-	*FA	Feed motor phase (A-)
2	-	FCOMA	+24 V
3	-	FA	Feed motor phase (A+)
4	-	N.C.	Not used
5	-	*FB	Feed motor phase (B-)
6	-	FCOMB	+24 V
7	-	FB	Feed motor phase (B+)

CN5008 [POWER RELAY Board] - CN5013 [POINTER Board]

Pin No.		Signal Name	Description
CN5008	CN5013		
1	1	+5VSLP	+5 V
2	2	JAM	JAM sensor
3	3	R_ENDING	ENDING (REAR) sensor
4	4	POINTER	Pointer sensor
5	5	GND	Ground
6	6	GND	Ground

CN5009 [POWER RELAY Board] - CN5014 [POST IMPRINTER DOOR Board]

Pin No.		Signal Name	Description
CN5009	CN5014		
1	1	+5VSLP	+5 V
2	2	+5VSLP	+5 V
3	3	POST_IMPDOOR	Post_imprinter door detector
4	4	GND	Ground
5	5	GND	Ground

CN5010 [RELAY (LOWER) Board] - CN5012 [HOPPER HOME Board]

Pin No.		Signal Name	Description
CN5010	CN5012		
1	1	5VSLP	+5 V
2	2	*PAPER	Paper sensor
3	3	SIZE5	Size detector 5
4	4	SIZE4	Size detector 4
5	5	SIZE3	Size detector 3
6	6	SIZE2	Size detector 2
7	7	SIZE1	Size detector 1
8	8	HOPPER_HOME	Hopper detector
9	9	RETARD_REL	Retard release
10	10	GND	Ground

CN5011 [RELAY (LOWER) Board] - Double Feed Detector (R)

Pin No.		Signal Name	Description
CN5011	Double Feed Detector (R)		
1	-	USOUND_R1	Double feed detector (Receiver1)
2	-	USOUND_R2	Double feed detector (Receiver2)

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CN5015 [HOPPER HOME Board] - CN5016 [SIZE DETECTOR Board]

Pin No.		Signal Name	Description
CN5015	CN5016		
1	1	5VSLP	+5 V
2	2	SIZE5	Size detector 5
3	3	SIZE4	Size detector 4
4	4	SIZE3	Size detector 3
5	5	SIZE2	Size detector 2
6	6	SIZE1	Size detector 1
7	7	*PAPER	Paper sensor
8	8	GND	Ground

CN5021 [SIZE DETECTOR Board] - Paper Sensor

Pin No.		Signal Name	Description
CN5021	Paper Sensor		
1	1	5VSLP	+5 V
2	2	*PAPER	Paper sensor
3	3	GND	Ground
4	4	FG	Ground

CN5017 [POINTER Board] - CN5019 [PAPER JAM SENSOR Board]

Pin No.		Signal Name	Description
CN5017	CN5019		
1	1	JAM	JAM sensor
2	2	5VSLP	+5 V
3	3	GND	Ground
4	4	GND	Ground

CN5018 [POINTER Board] - CN5020 [ENDING (REAR) SENSOR Board]

Pin No.		Signal Name	Description
CN5018	CN5020		
1	1	R_ENDING	Ending rear sensor
2	2	5VSLP	+5 V
3	3	GND	Ground

CN5023 [RELAY (UPPER) Board] - CN5024 [ENDING (FRONT) SENSOR Board]

Pin No.		Signal Name	Description
CN5023	CN5024		
1	1	5VSLP	+5 V
2	2	5VSLP	+5 V
3	3	F_ENDING	Ending front sensor
4	4	GND	Ground
5	5	GND	Ground

CN5025 [RELAY (UPPER) Board] - CN5027 [WAITING SENSOR Board]

Pin No.		Signal Name	Description
CN5025	CN5027		
1	1	5VSLP	+5 V
2	2	SKEW_R	Skew right sensor
3	3	WAITING	Waiting sensor
4	4	SKEW_L	Skew left sensor
5	5	GND	Ground
6	6	GND	Ground

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CN5026 [RELAY (UPPER) Board] - CN5028 [STARTING SENSOR Board]

Pin No.		Signal Name	Description
CN5026	CN5028		
1	1	5VSLP	+5 V
2	2	STARTING	Starting sensor
3	3	GND	Ground
4	-	GND	Ground

CN5029 [WAITING SENSOR Board] - CN5030 [SKEW (R) Board]

Pin No.		Signal Name	Description
CN5029	CN5030		
1	1	5VSLP	+5 V
2	2	SKEW_R	Skew right sensor
3	3	GND	Ground

CN5031 [RELAY (UPPER) Board] - Double Feed Detector (G)

Pin No.		Signal Name	Description
CN5031	Double Feed Detector (G)		
1	-	USOUND_G1	Double feed detector (Generator 1)
2	-	USOUND_G2	Double feed detector (Generator 2)

CN801 [POWER Board] - Inlet

Pin No.		Signal Name	Description
CN801	Inlet		
1	-	L	Live
2	-	N.C.	Not used
3	-	N	Neutral

CN802 [POWER Board] - CN4003 [DRIVE Board]

Pin No.		Signal Name	Description
CN802	CN4003		
1	1	OVP+	Over voltage protect
2	2	P_FANERR (N.C.)	Not used
3	3	GND	Ground
4	4	GND	Ground
5	5	GND	Ground
6	6	+24VPWR	+24 V
7	7	+24VPWR	+24 V
8	8	+24VPWR	+24 V
9	9	*SLEEP_PWR	Sleep power (L: Sleep mode)
10	10	OVP-	Ground

CN803 [POWER Board] - FAN

Pin No.		Signal Name	Description
CN803	FAN		
1	-	FAN+	Fan plus power (+24 V)
2	-	P_FANERR (N.C.)	Not used
3	-	FAN-	Fan minus power

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12 SCHEMATIC DIAGRAM

IMPORTANT SAFETY NOTICE

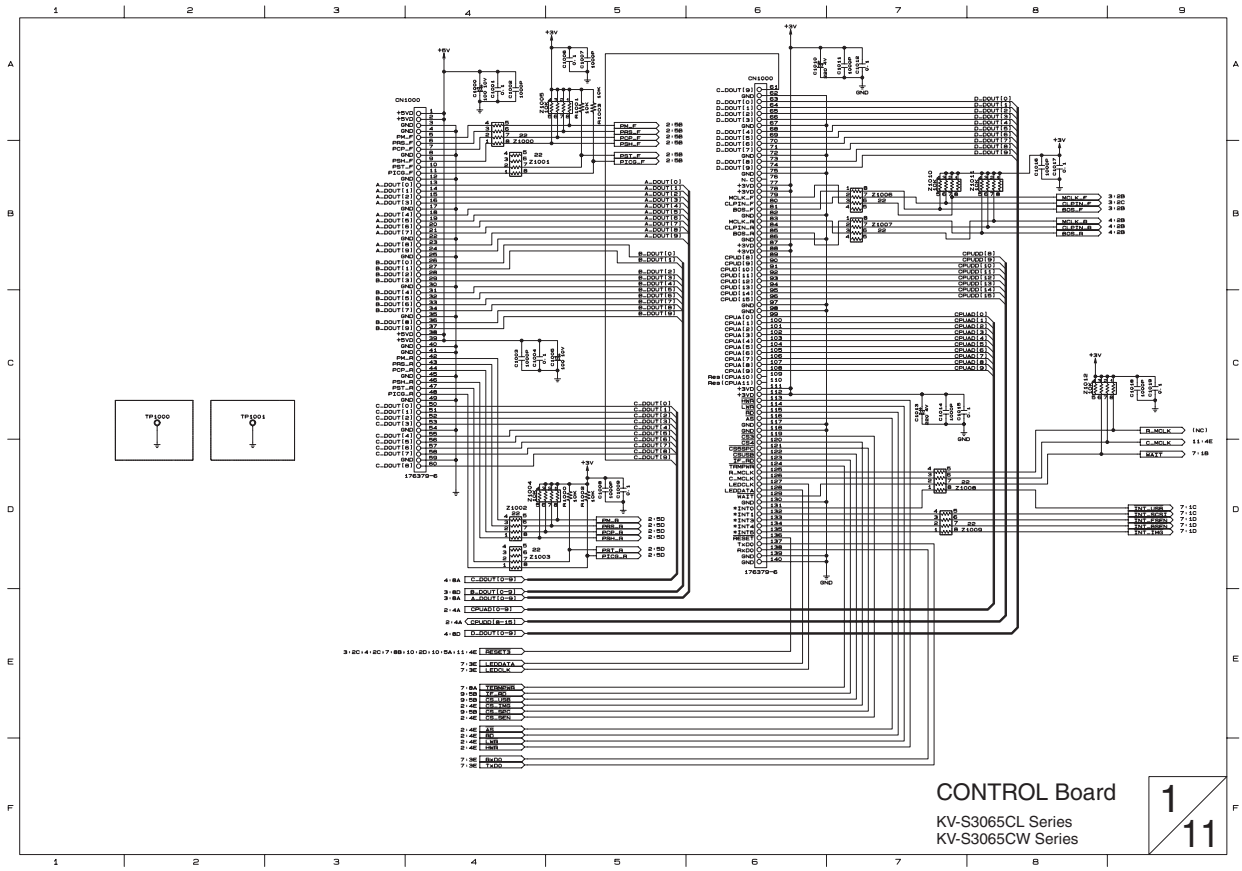
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

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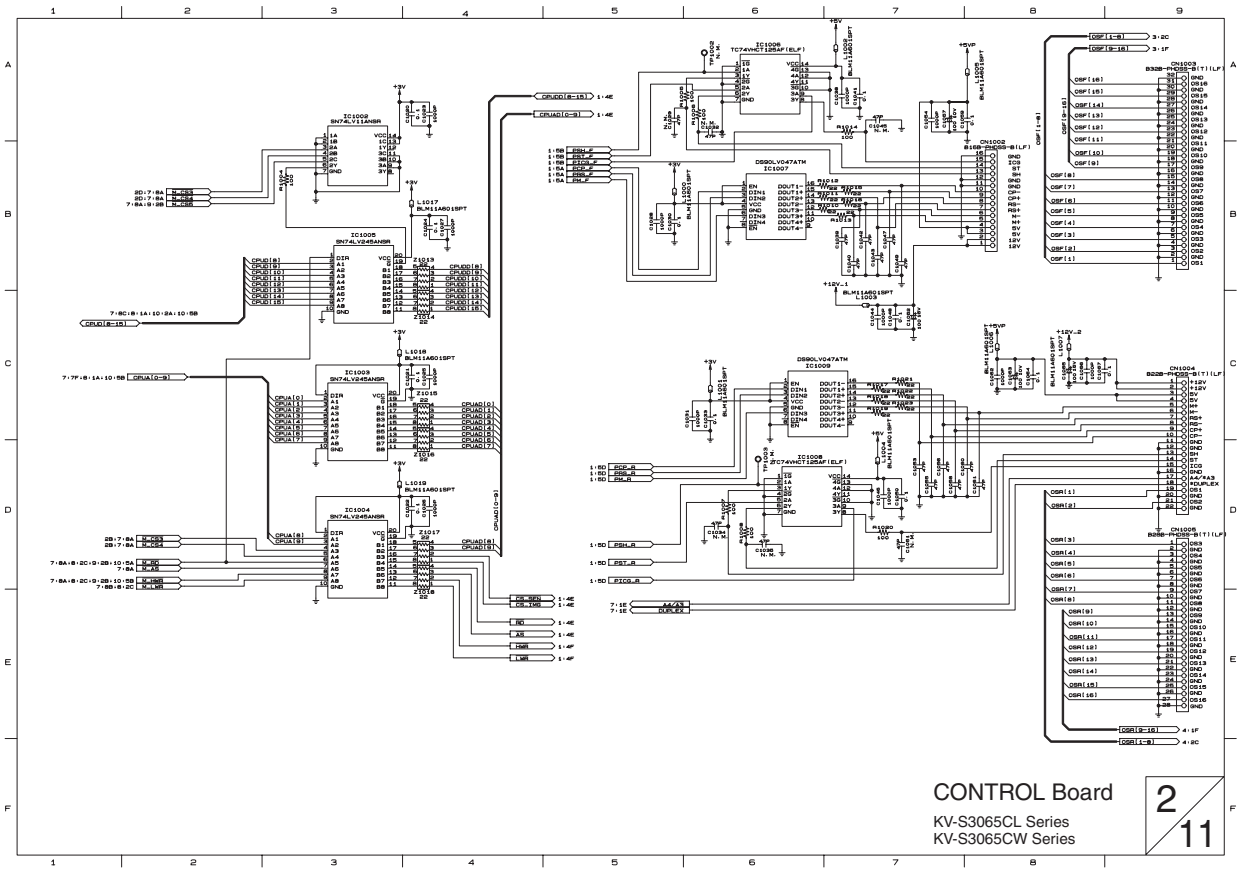
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12.2 INTERFACE Board
12.3 DRIVE Board
12.4 PANEL, RELAY, and SENSOR Boards
12.5 CIS (F) RELAY and CIS (B) RELAY Boards
12.6 POWER Board

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12.1. CONTROL Board



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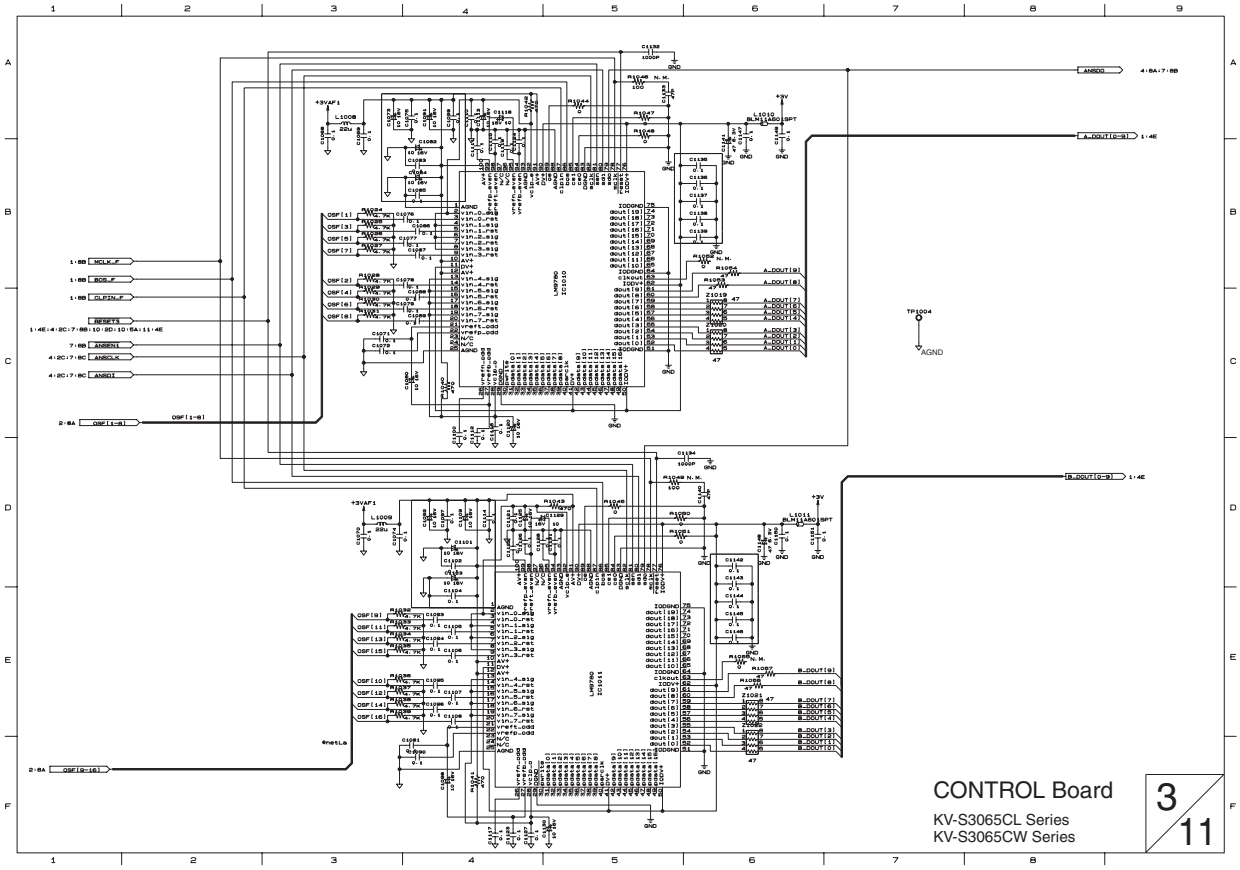


CONTROL Board

KV-S3065CL Series
KV-S3065CW Series

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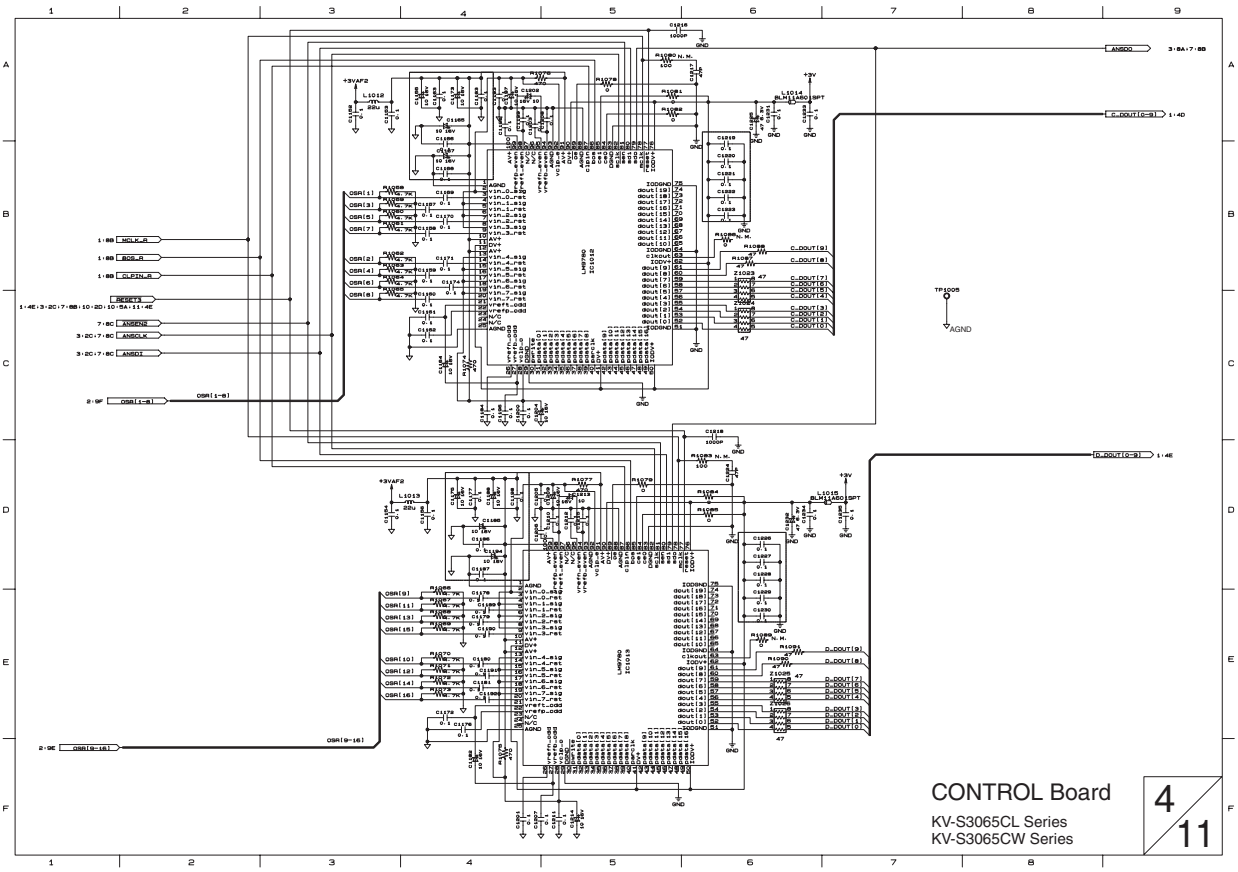


CONTROL Board

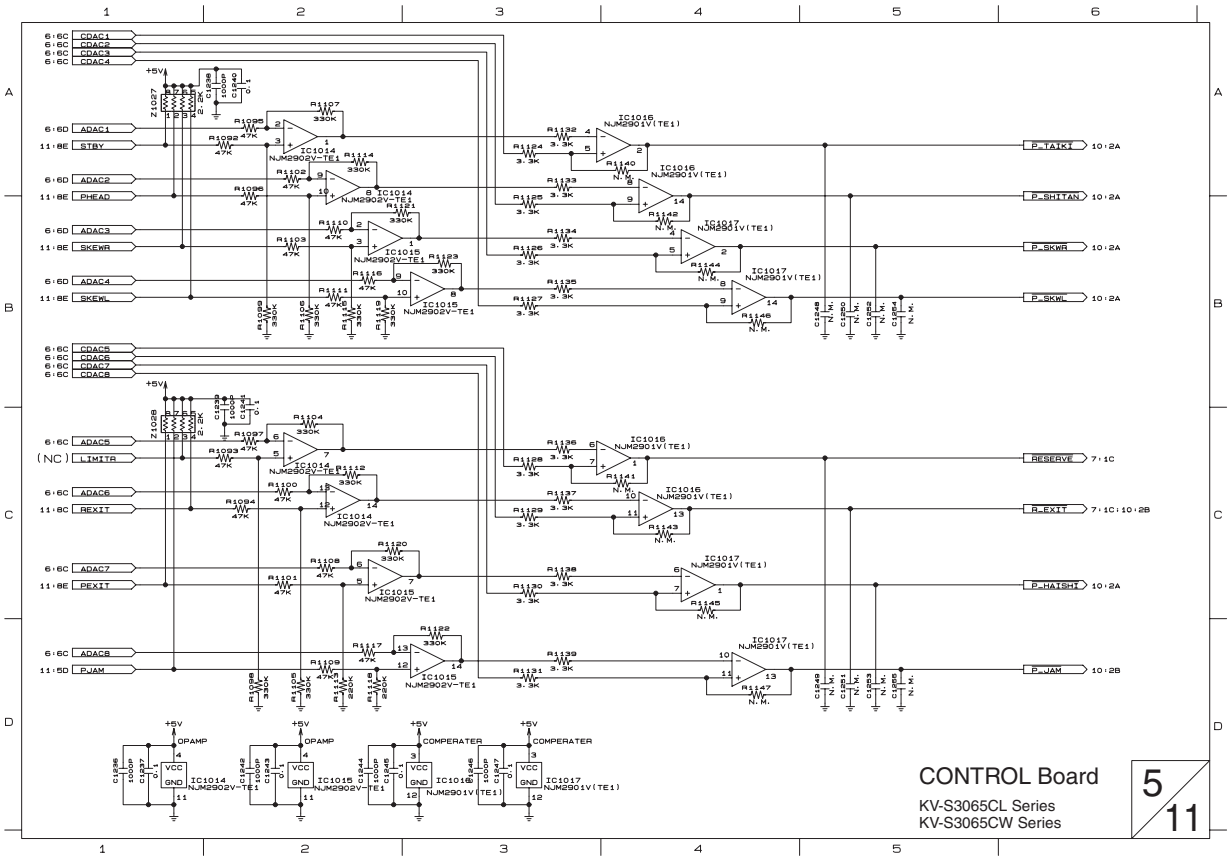
KV-S3065CL Series
KV-S3065CW Series

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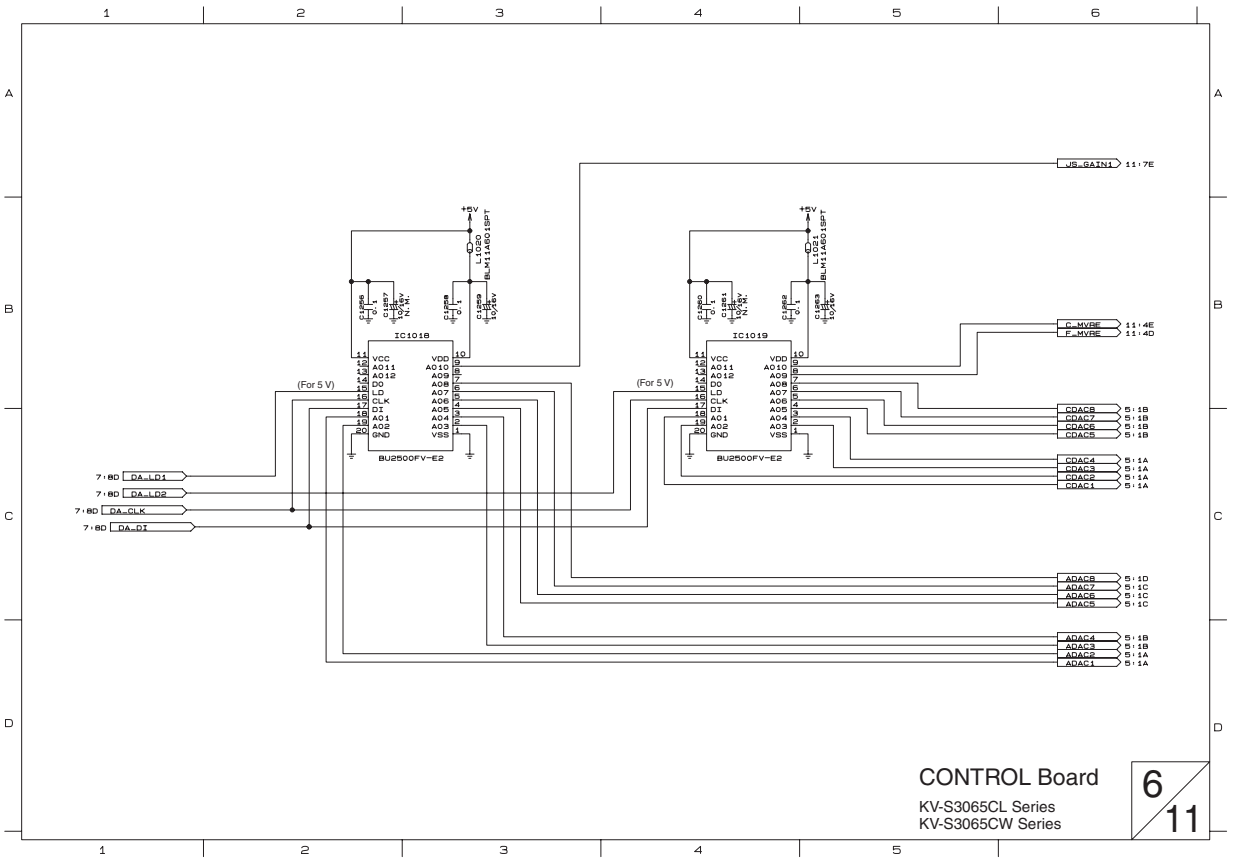
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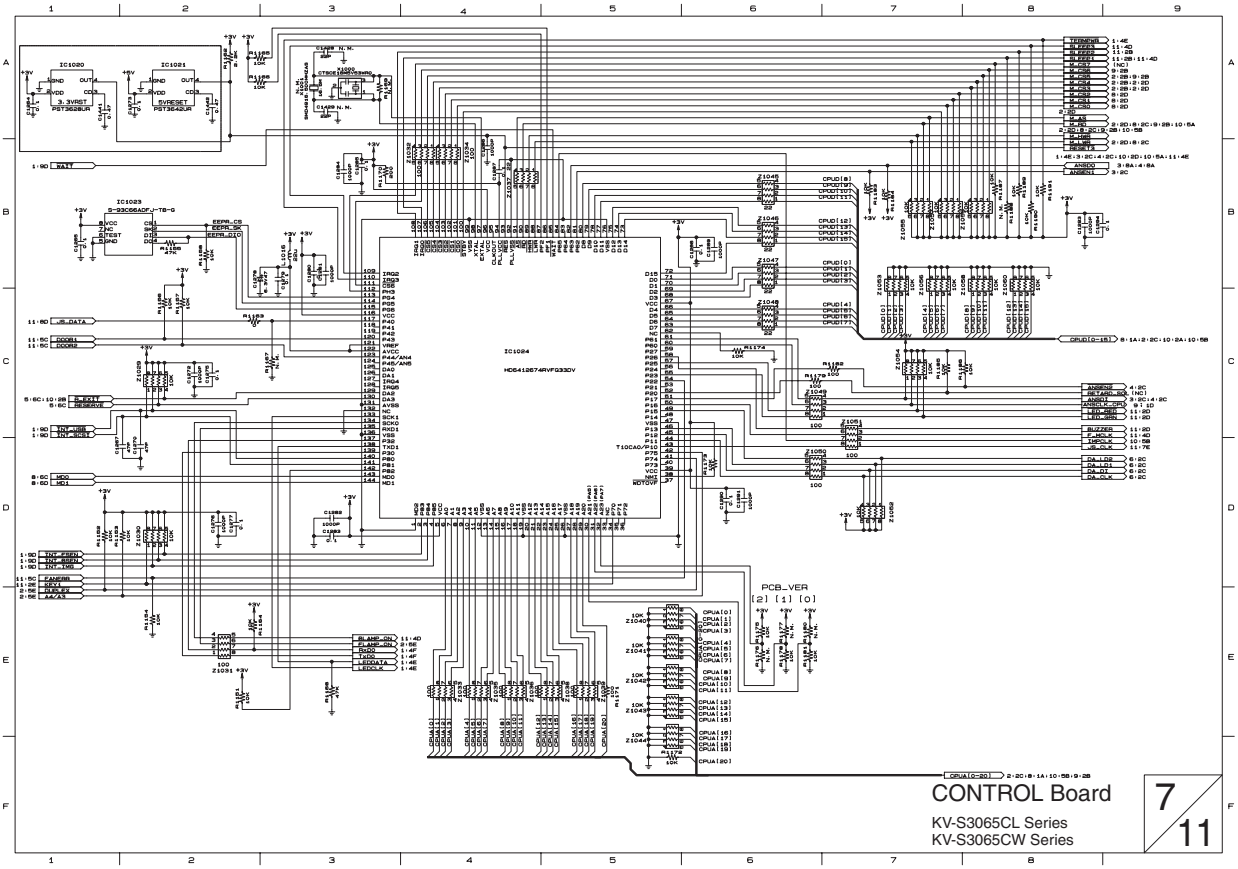
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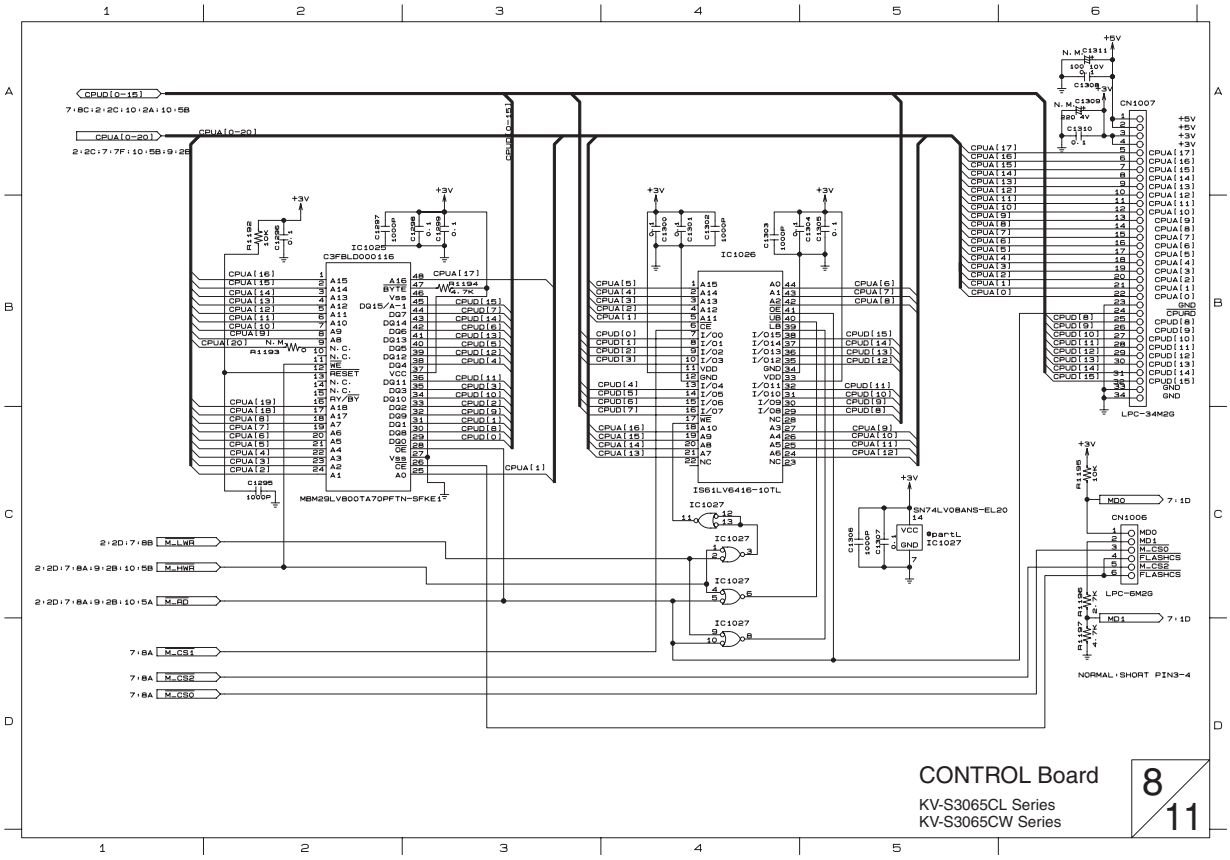


CONTROL Board

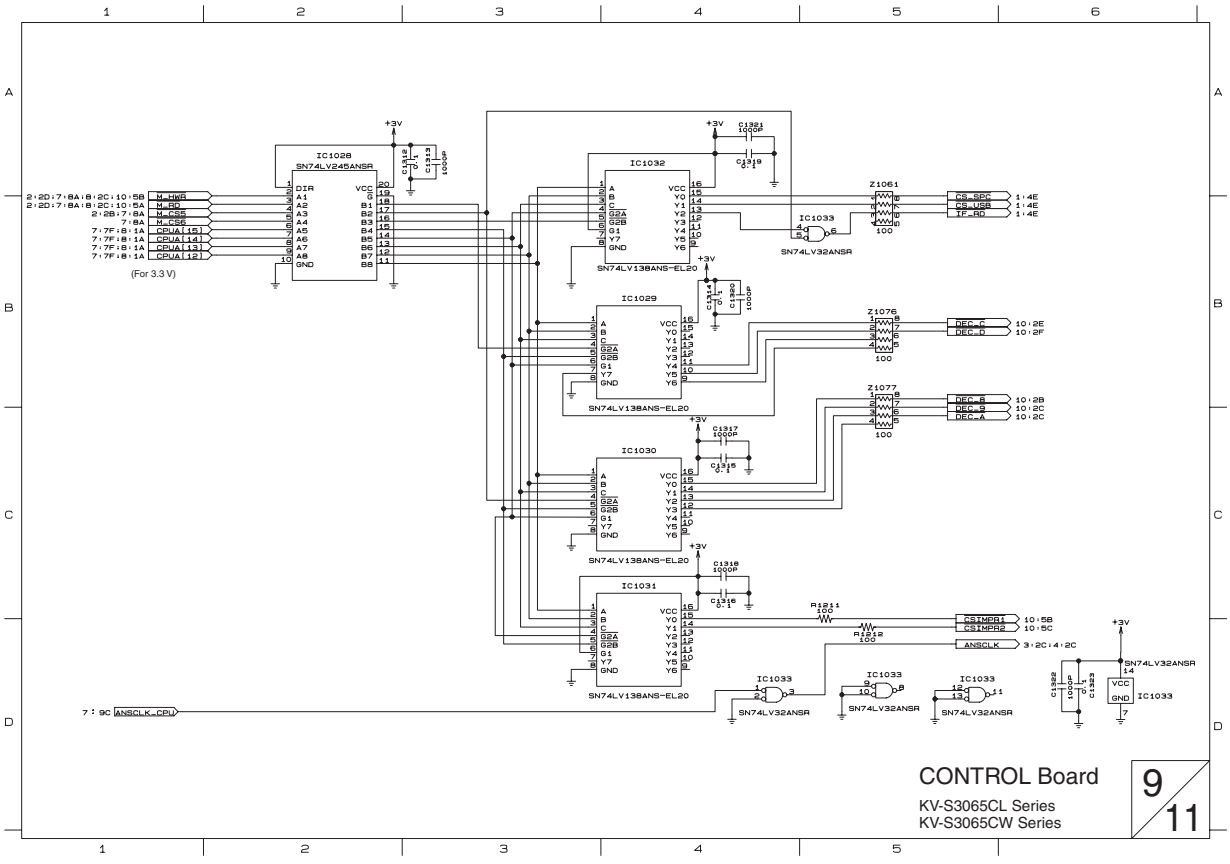
KV-S3065CL Series
KV-S3065CW Series

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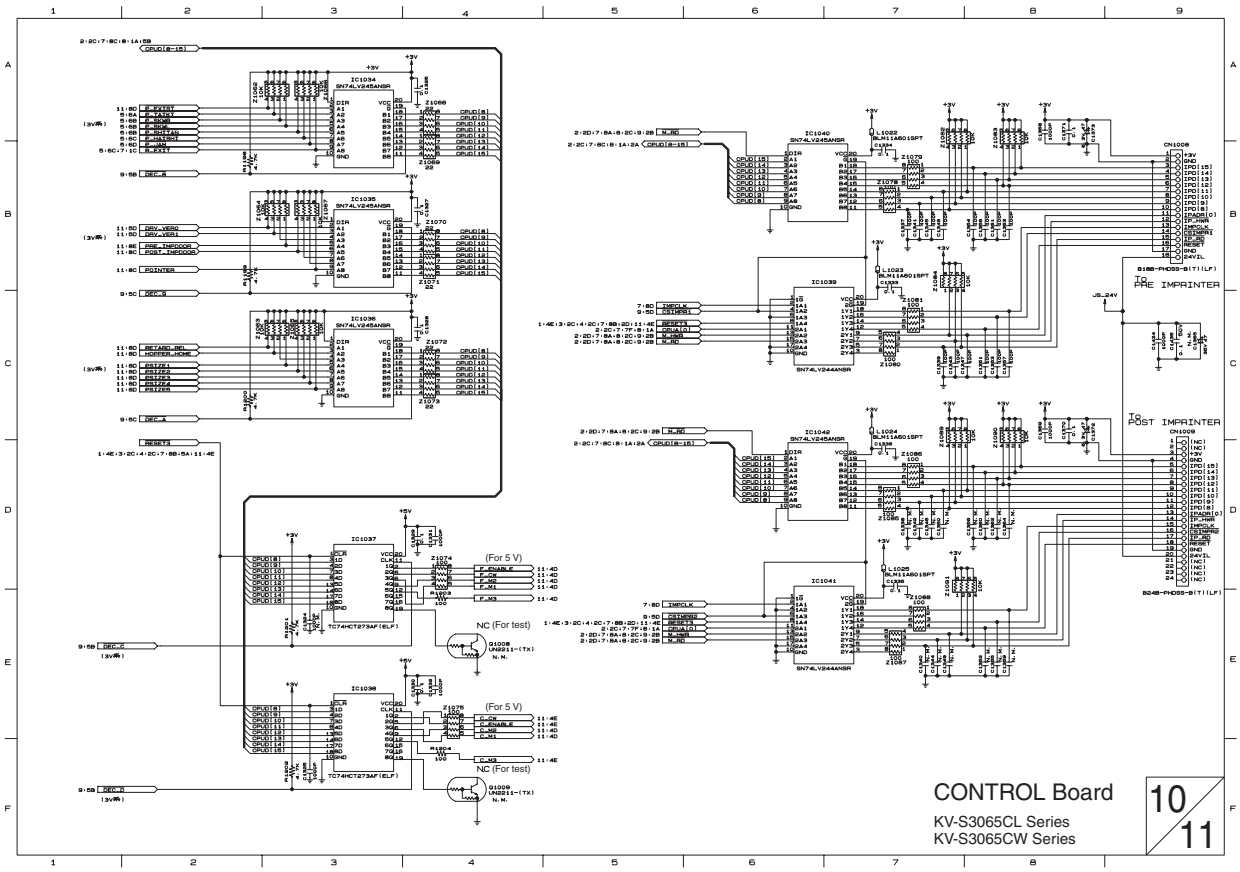
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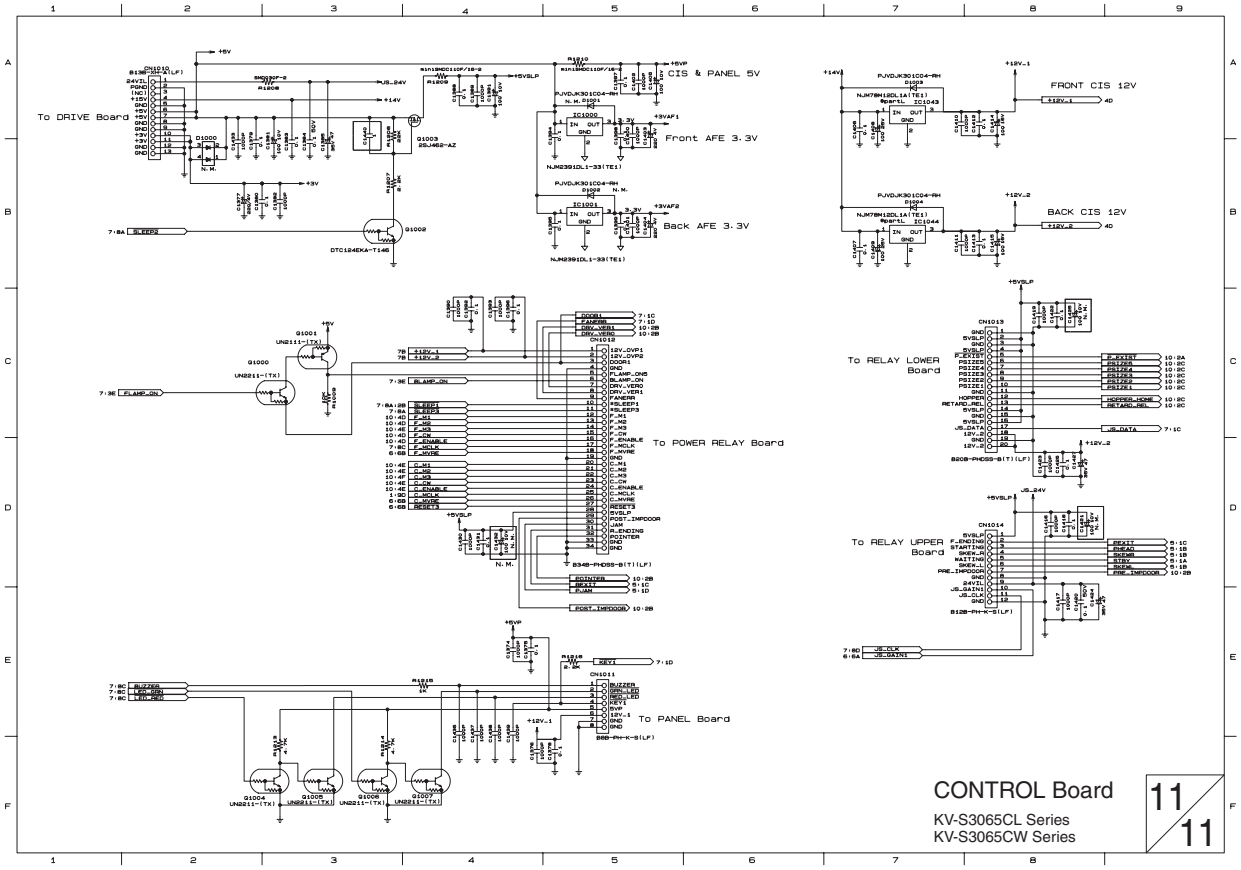
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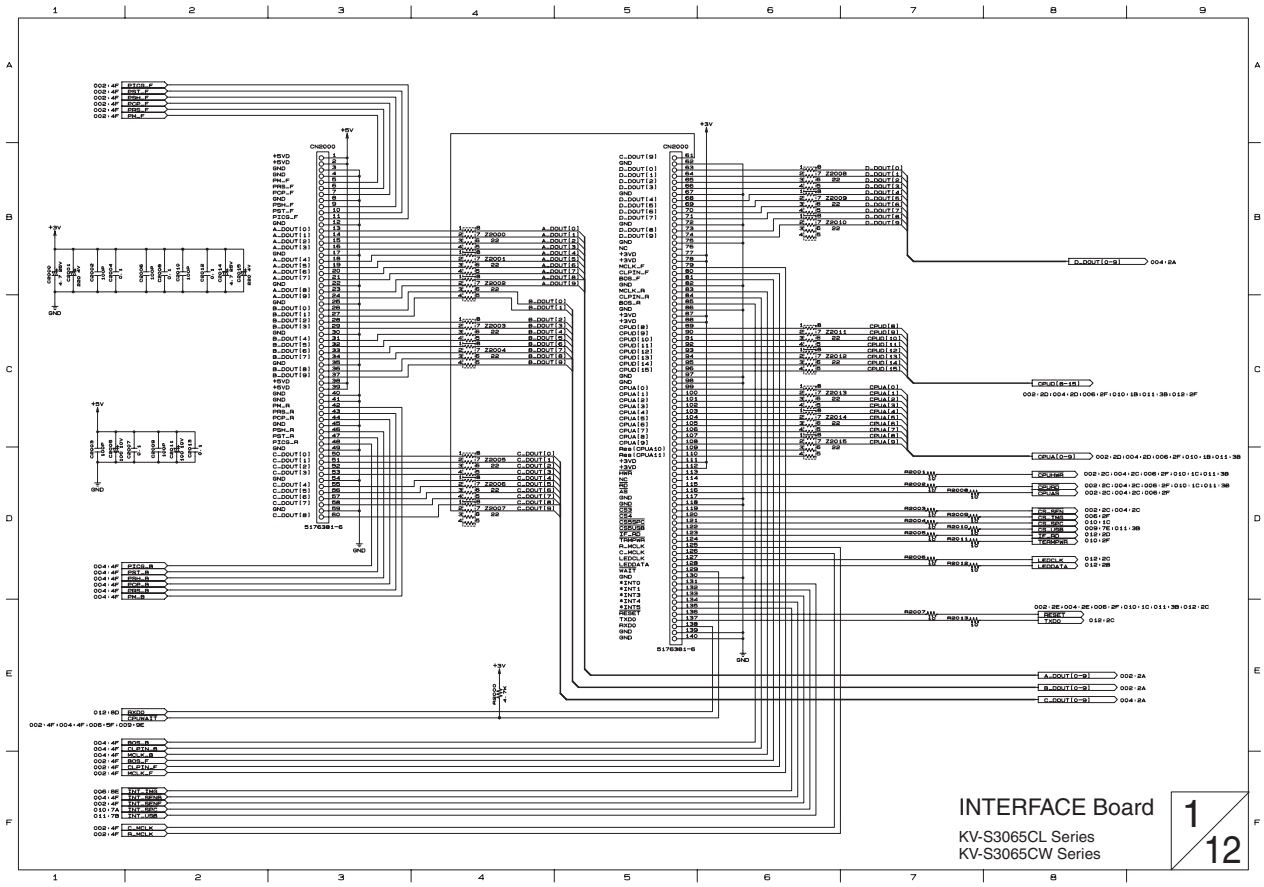


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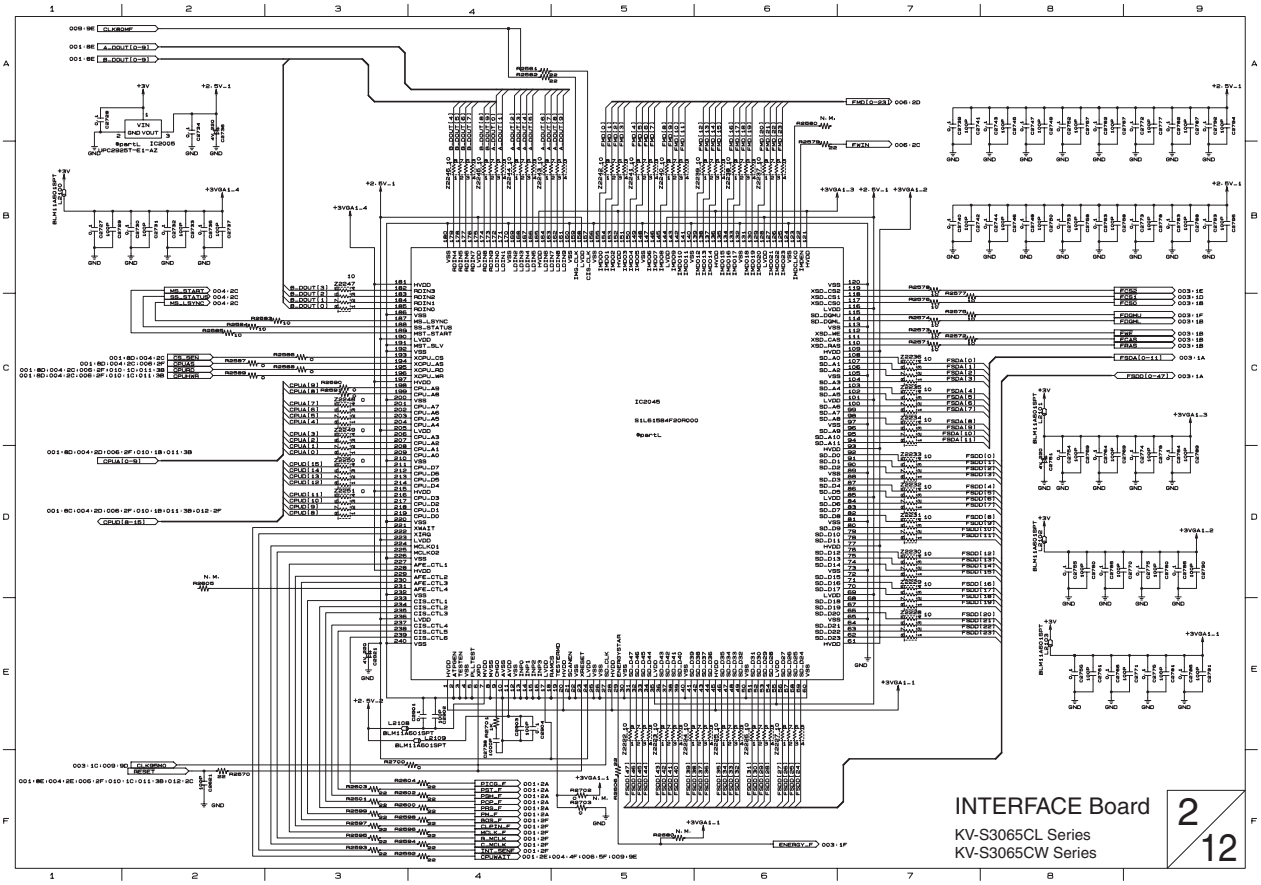


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12.2. INTERFACE Board



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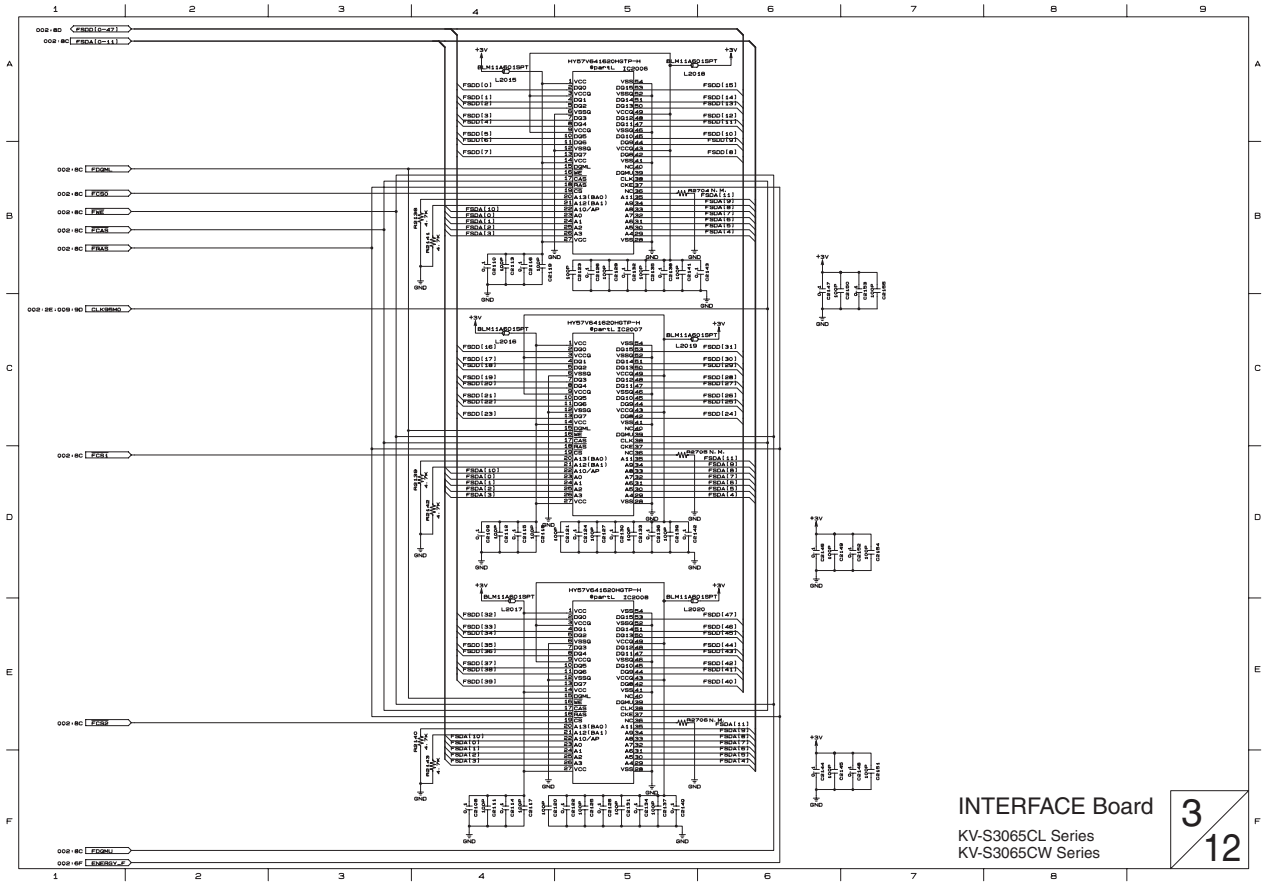


INTERFACE Board

KV-S3065CL Series
KV-S3065CW Series

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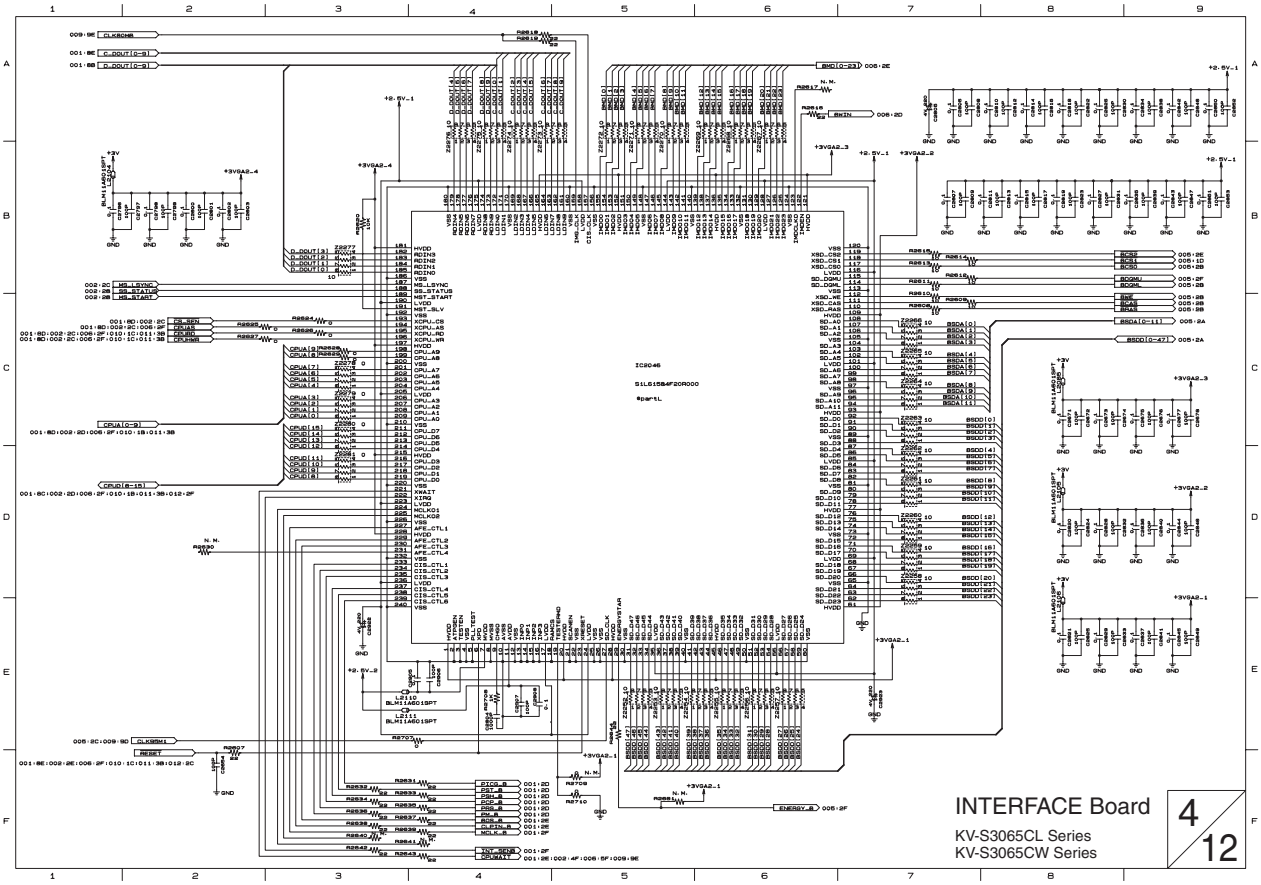


INTERFACE Board

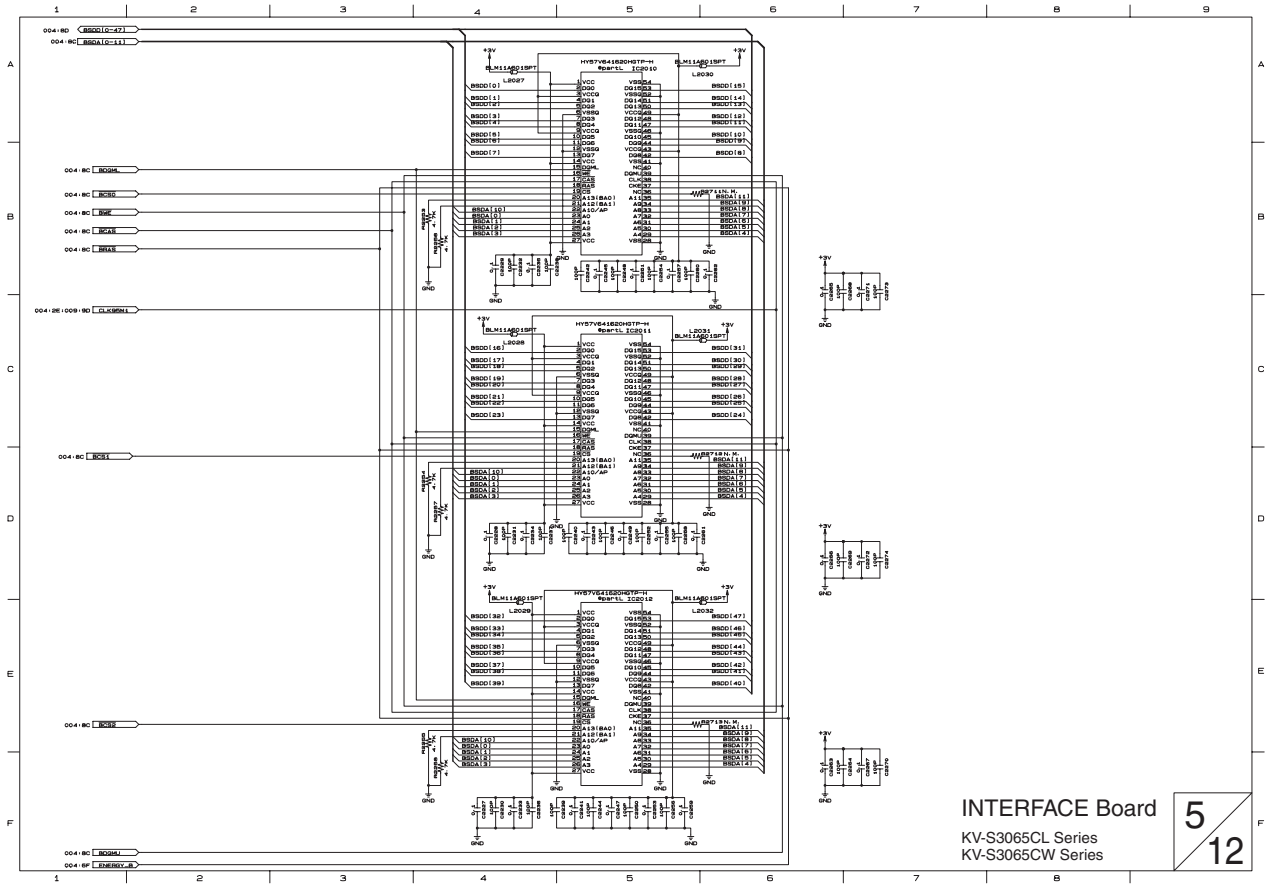
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KV-S3065CW Series

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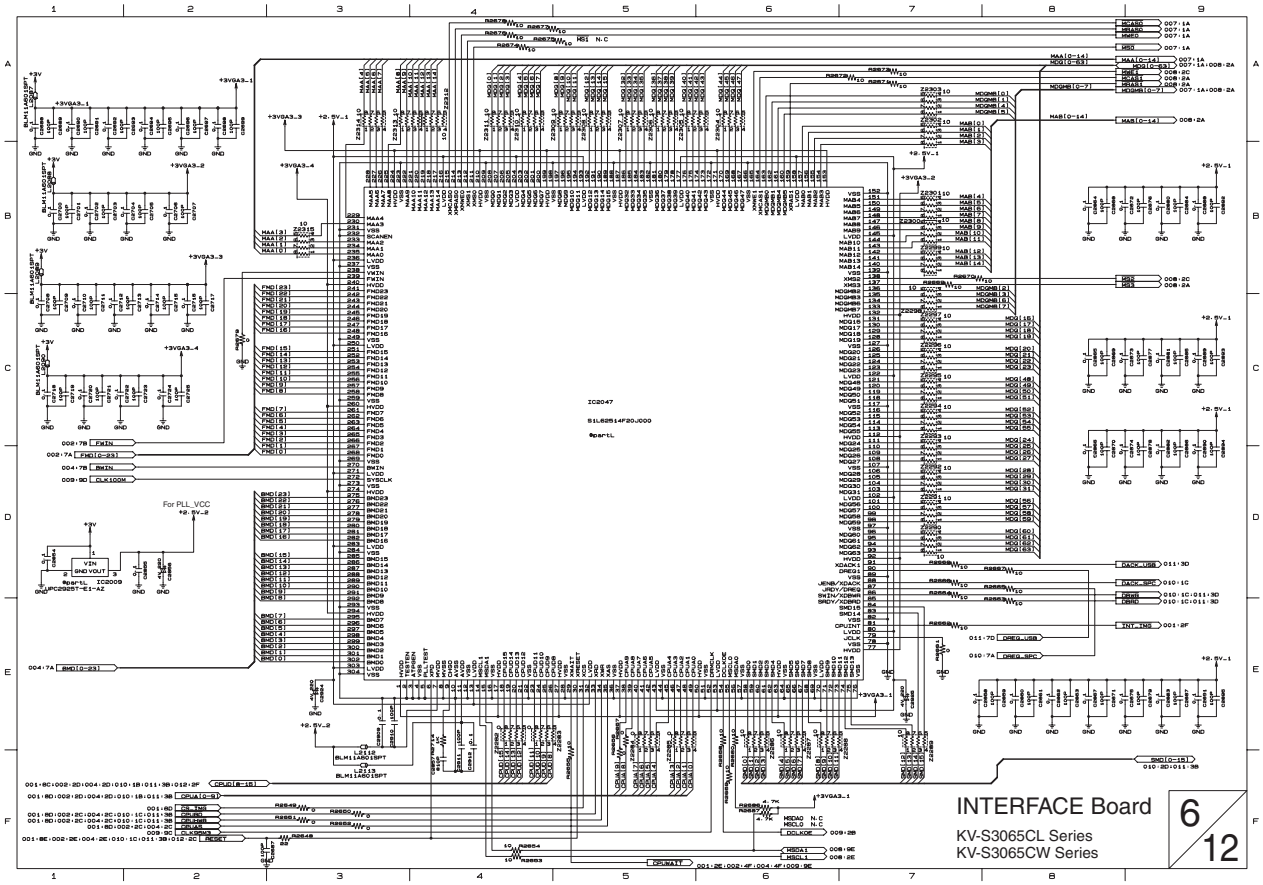


INTERFACE Board

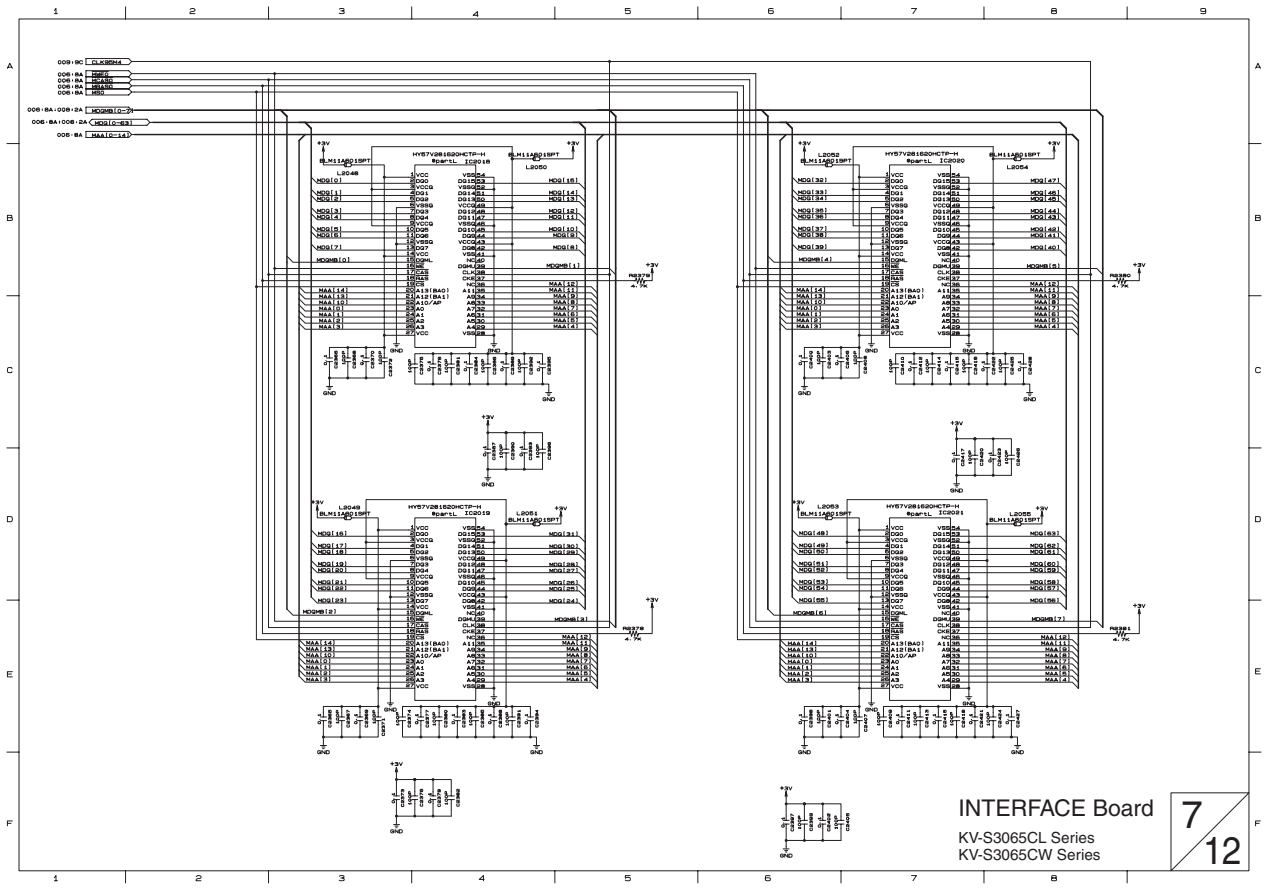
KV-S3065CL Series
KV-S3065CW Series

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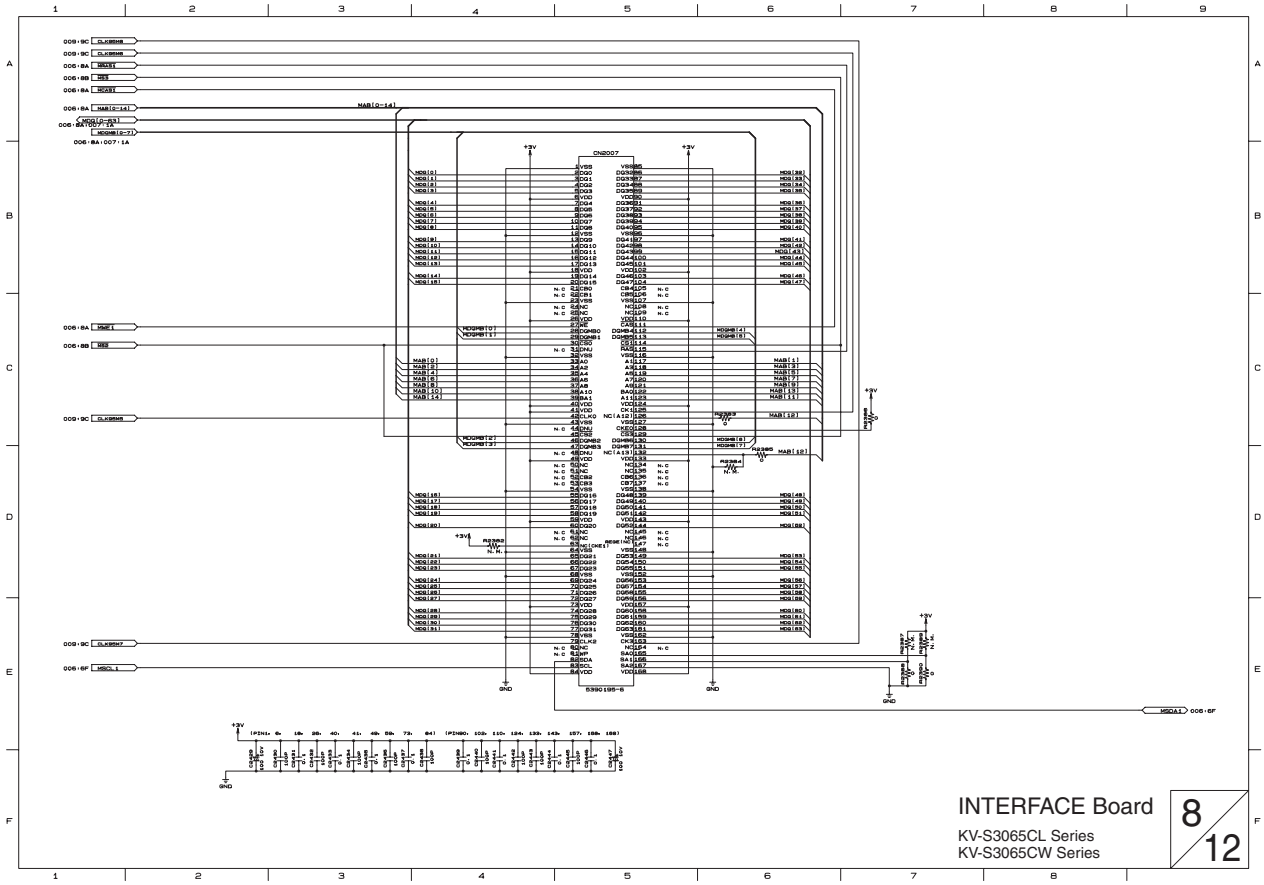
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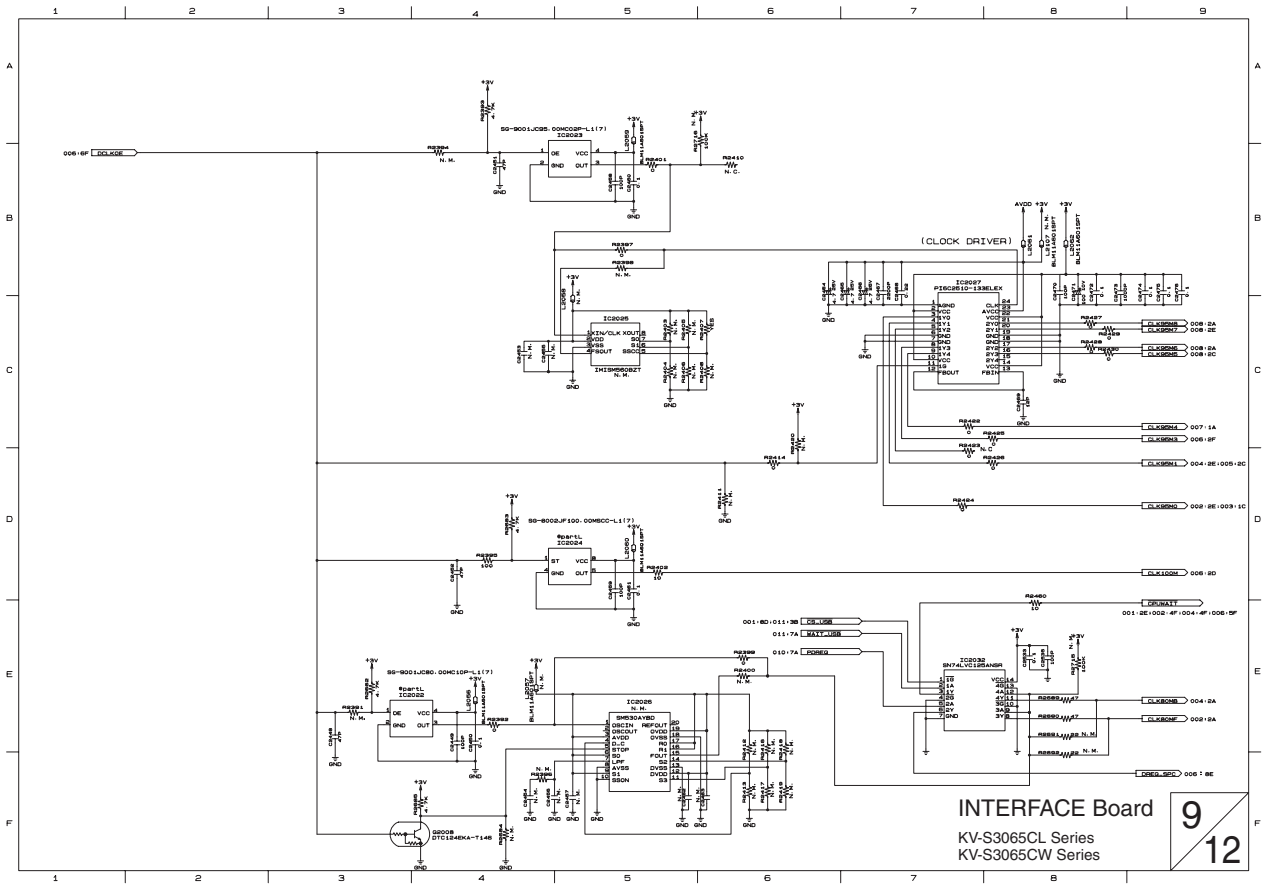


INTERFACE Board

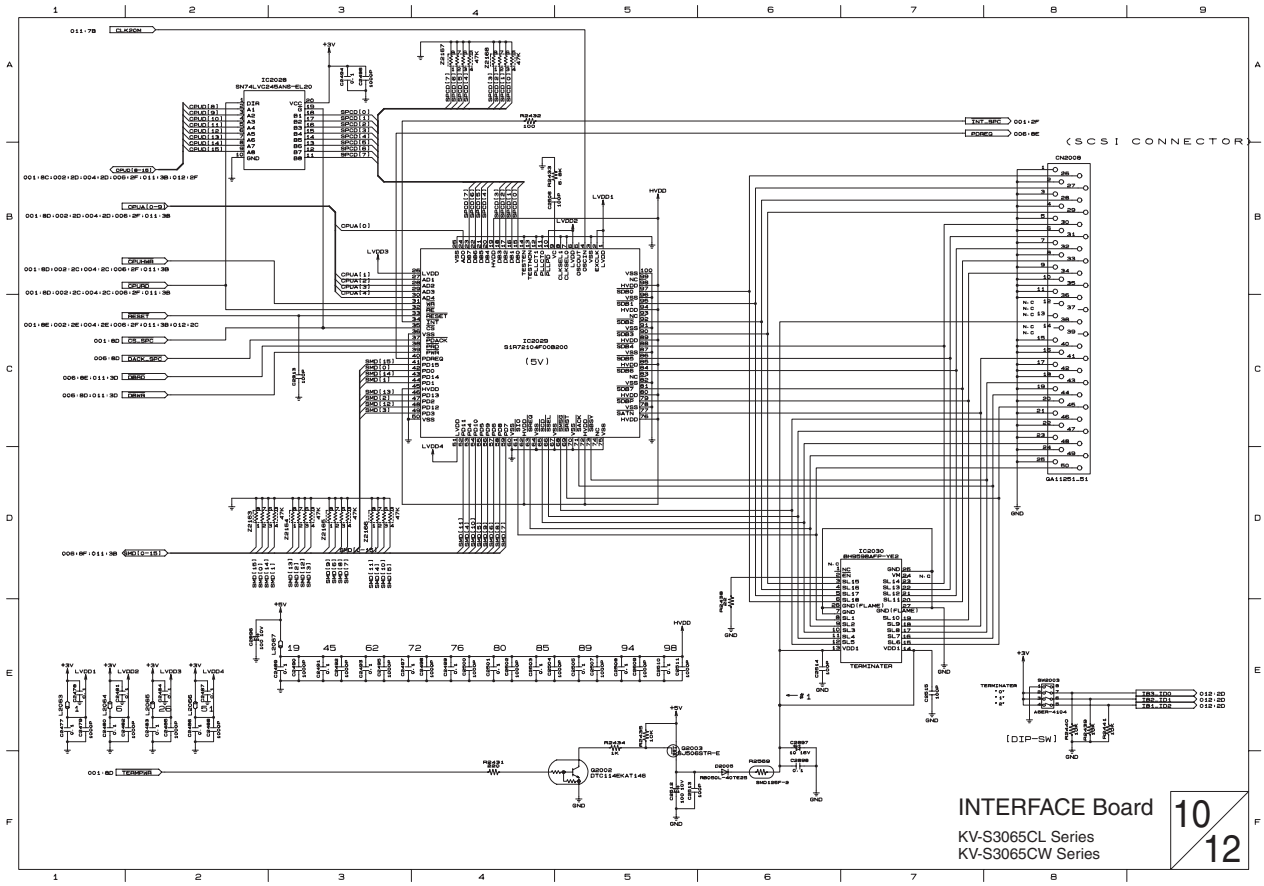
KV-S3065CL Series
KV-S3065CW Series

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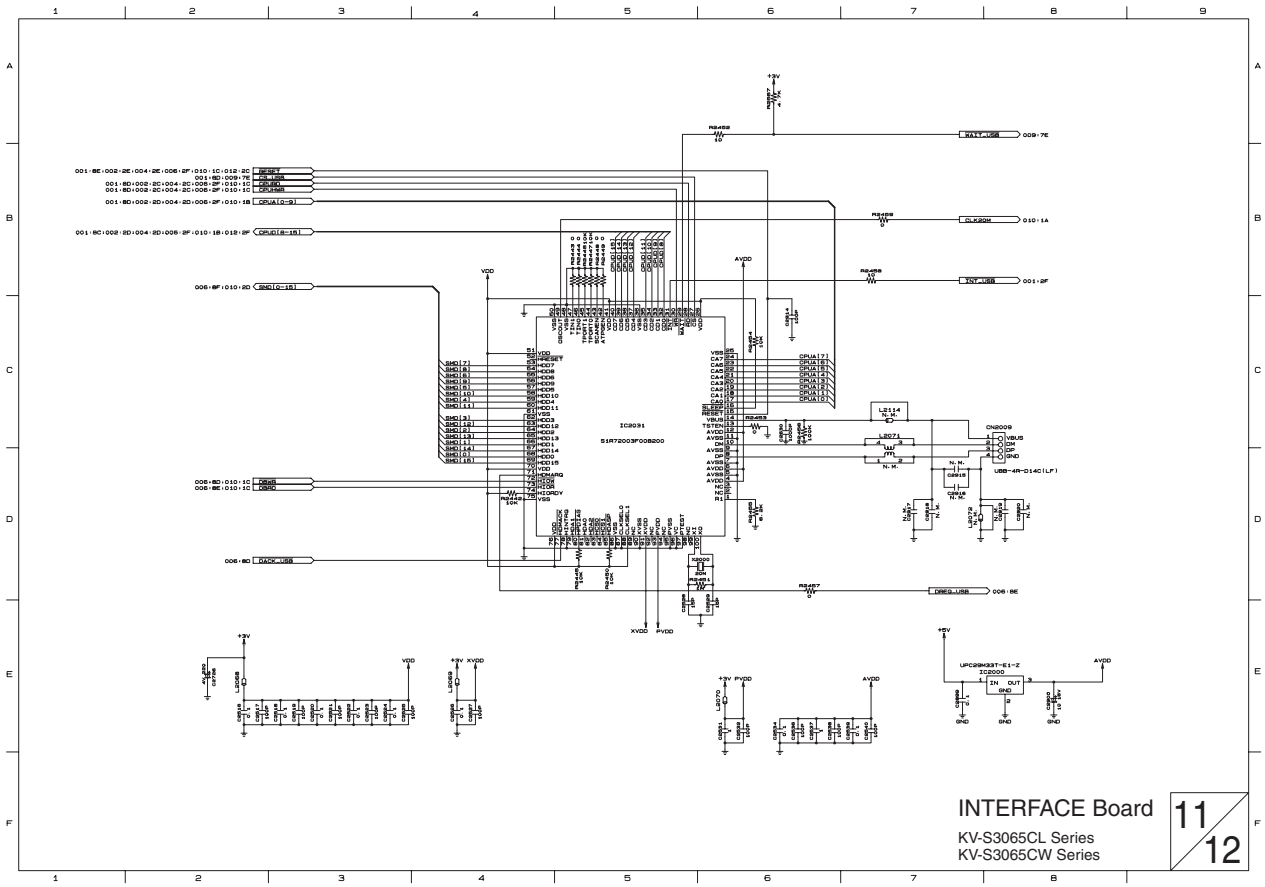
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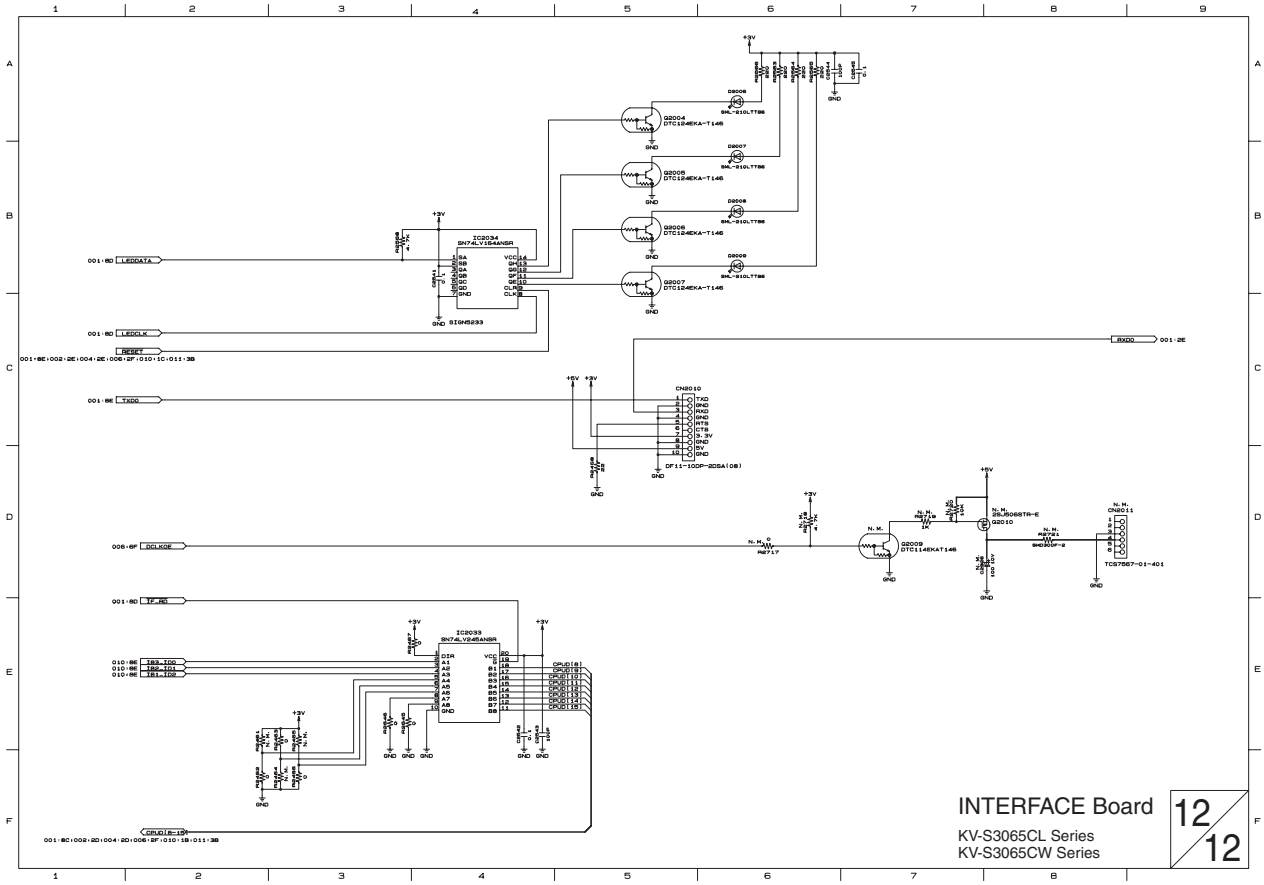


INTERFACE Board

KV-S3065CL Series
KV-S3065CW Series

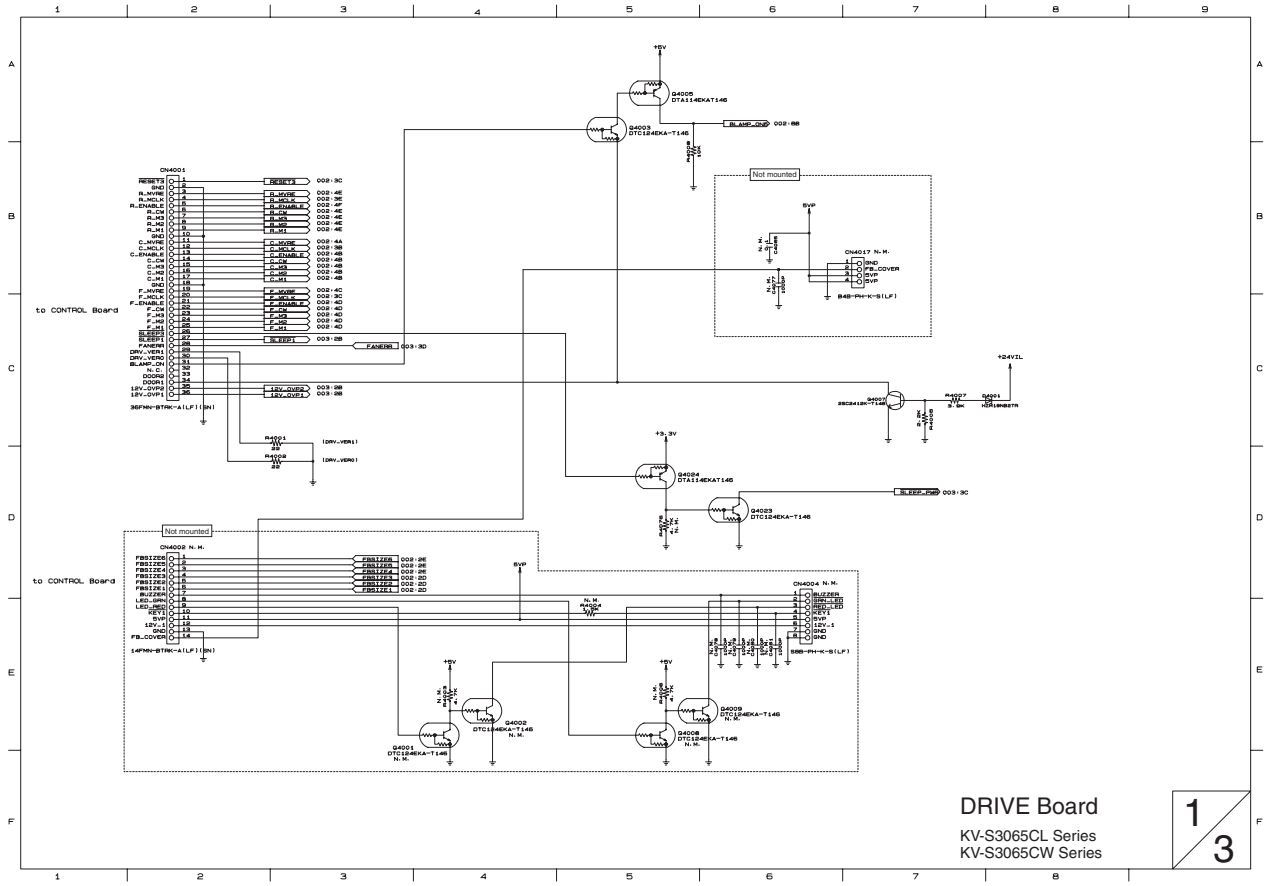
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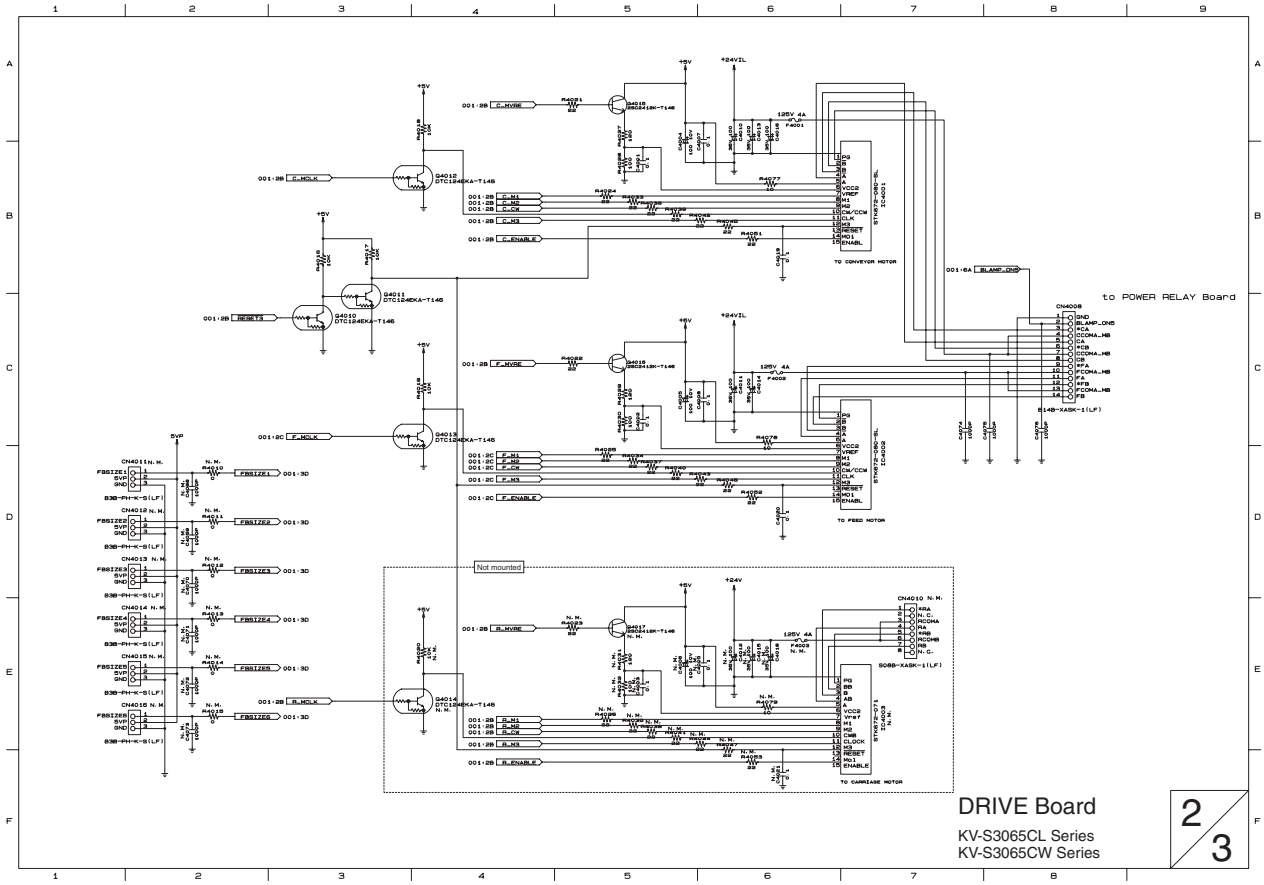


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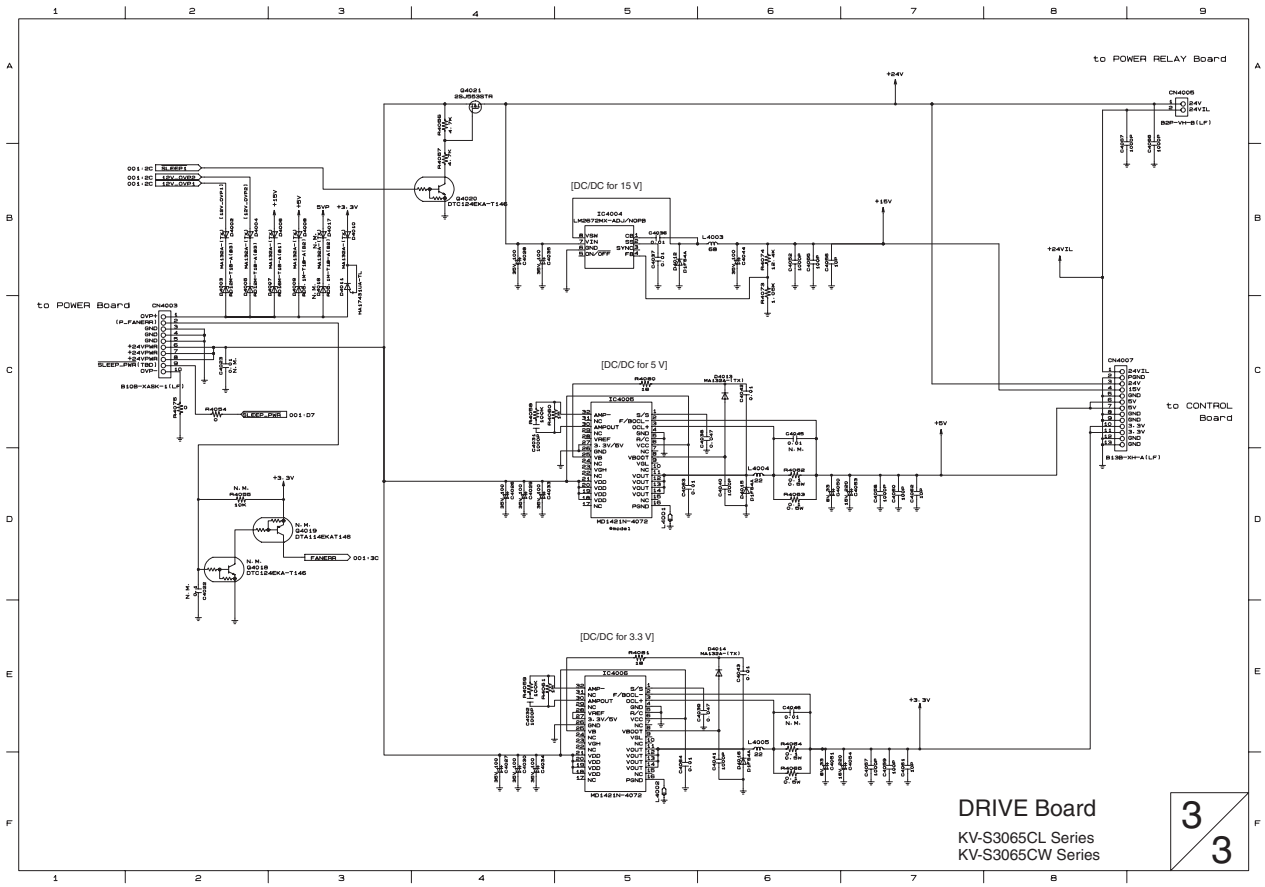
12.3. DRIVE Board



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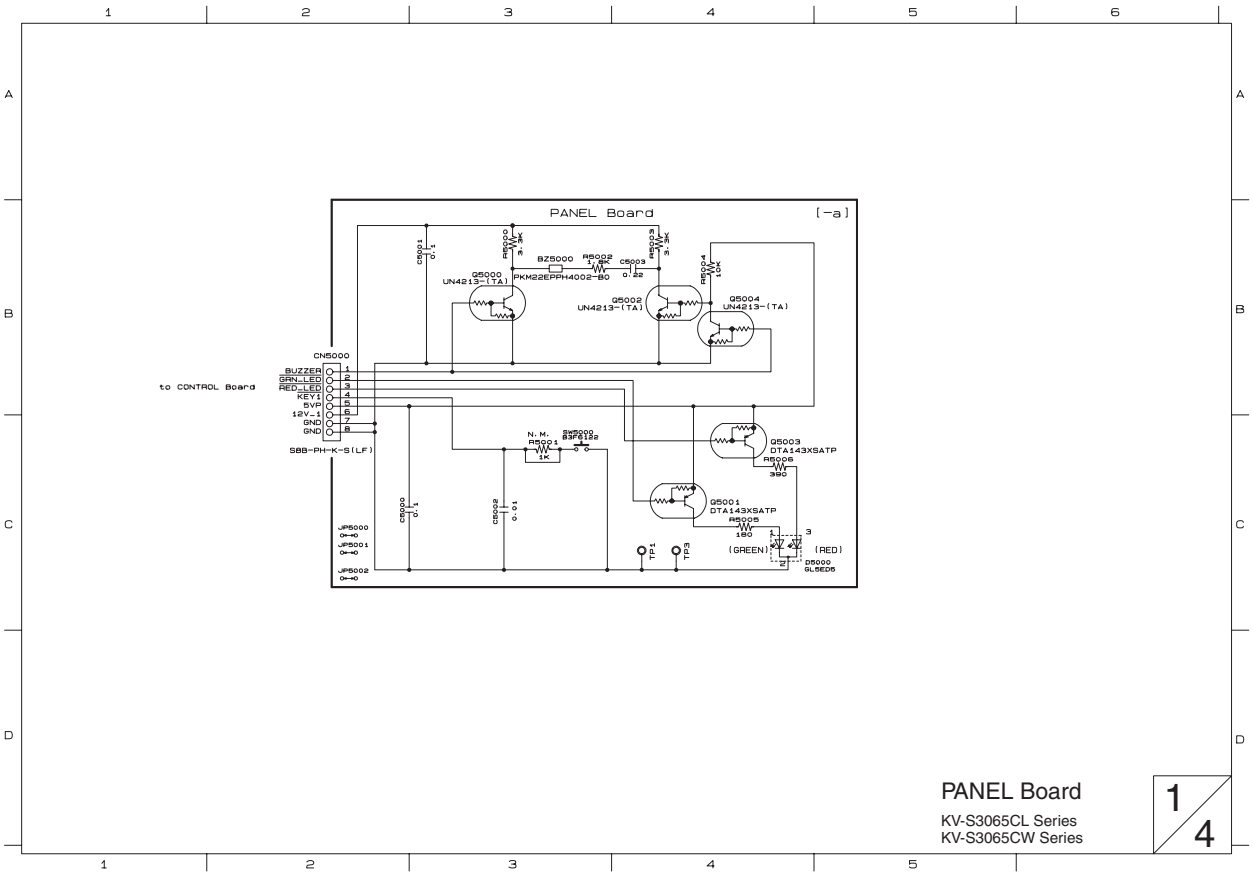


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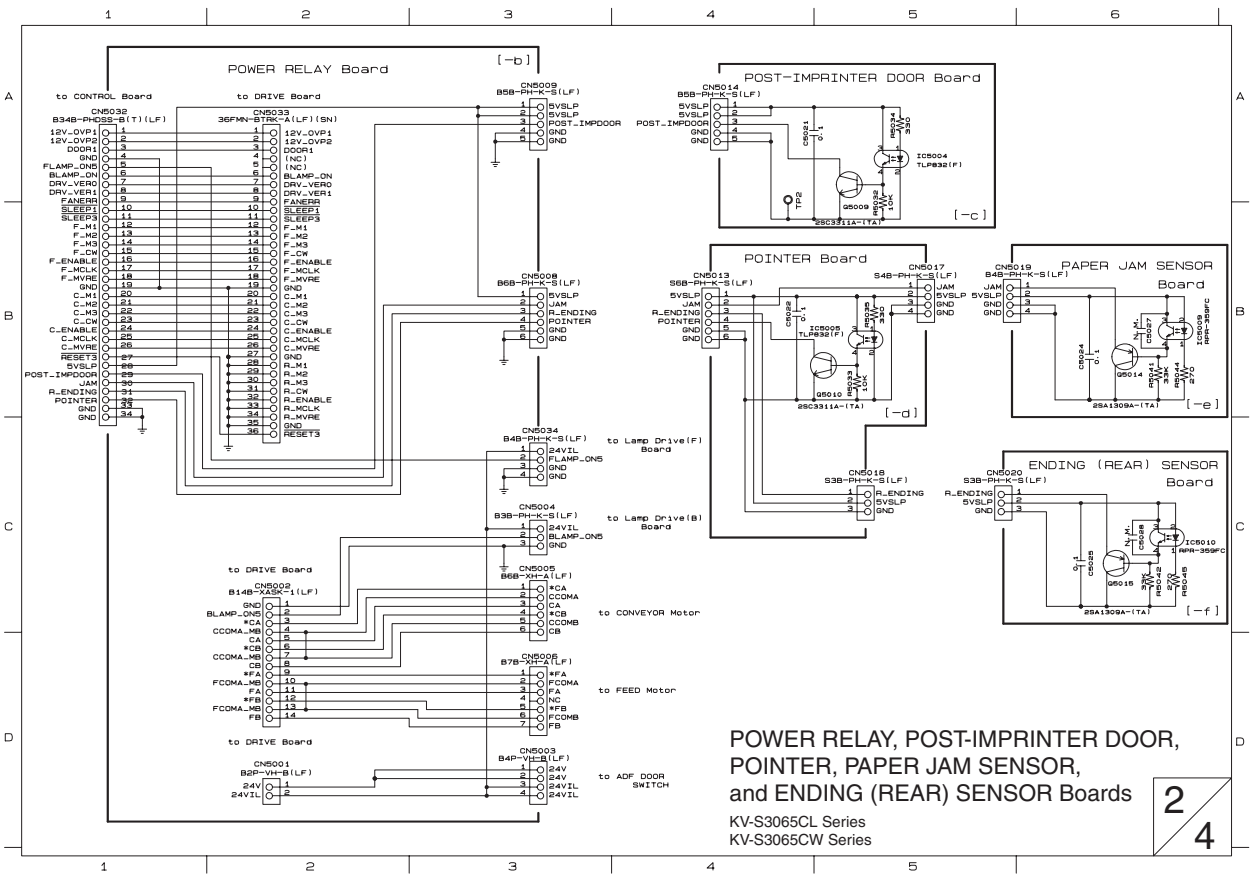


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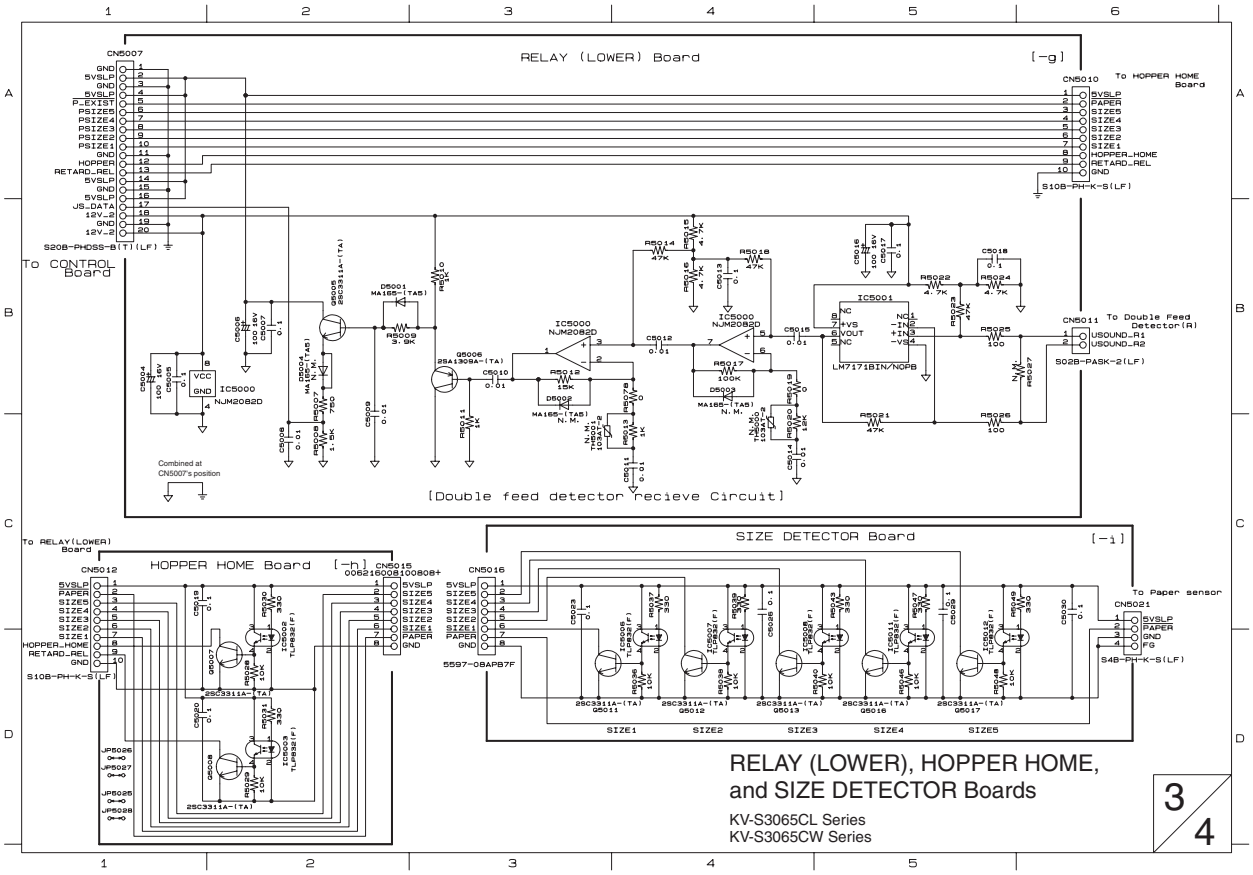
12.4. PANEL, RELAY, and SENSOR Boards



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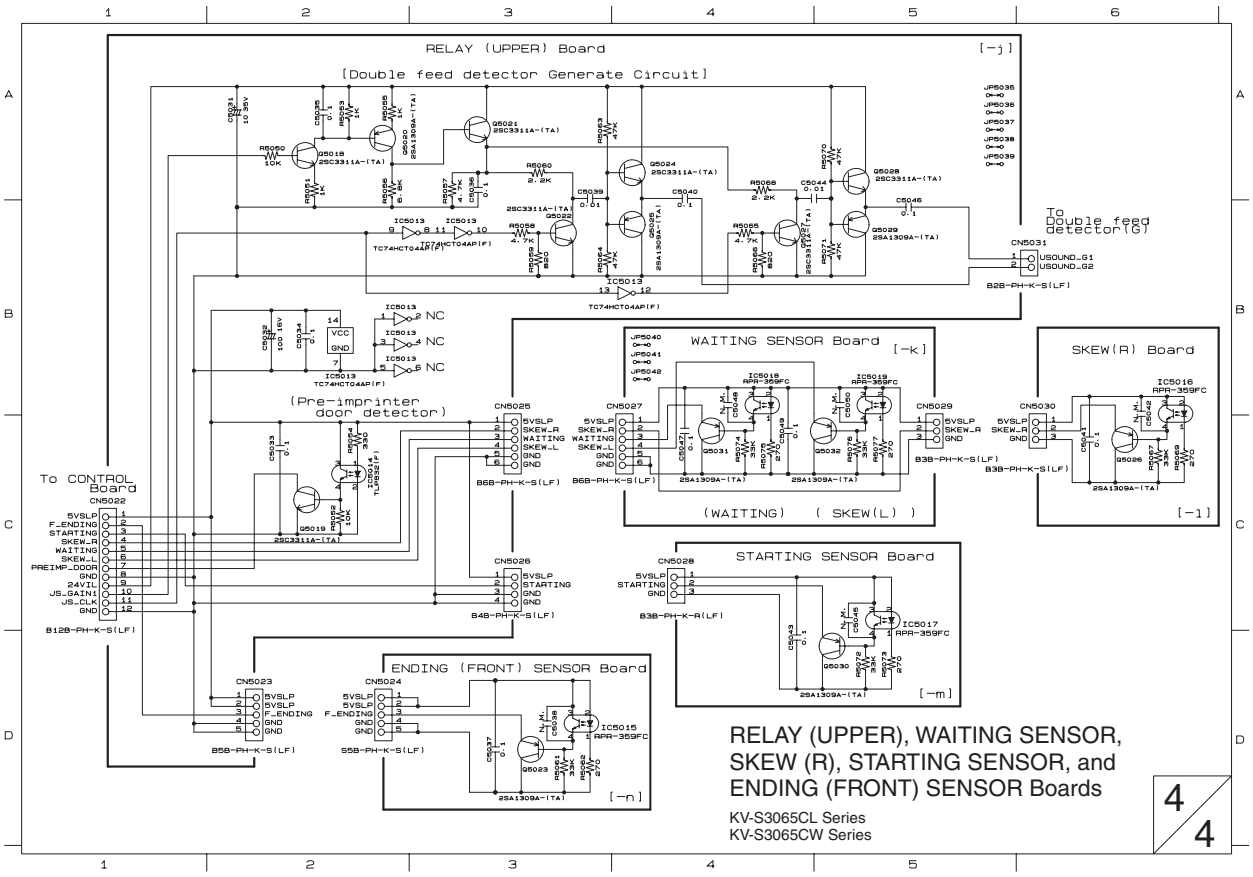


RELAY (LOWER), HOPPER HOME, and SIZE DETECTOR Boards

KV-S3065CL Series
KV-S3065CW Series

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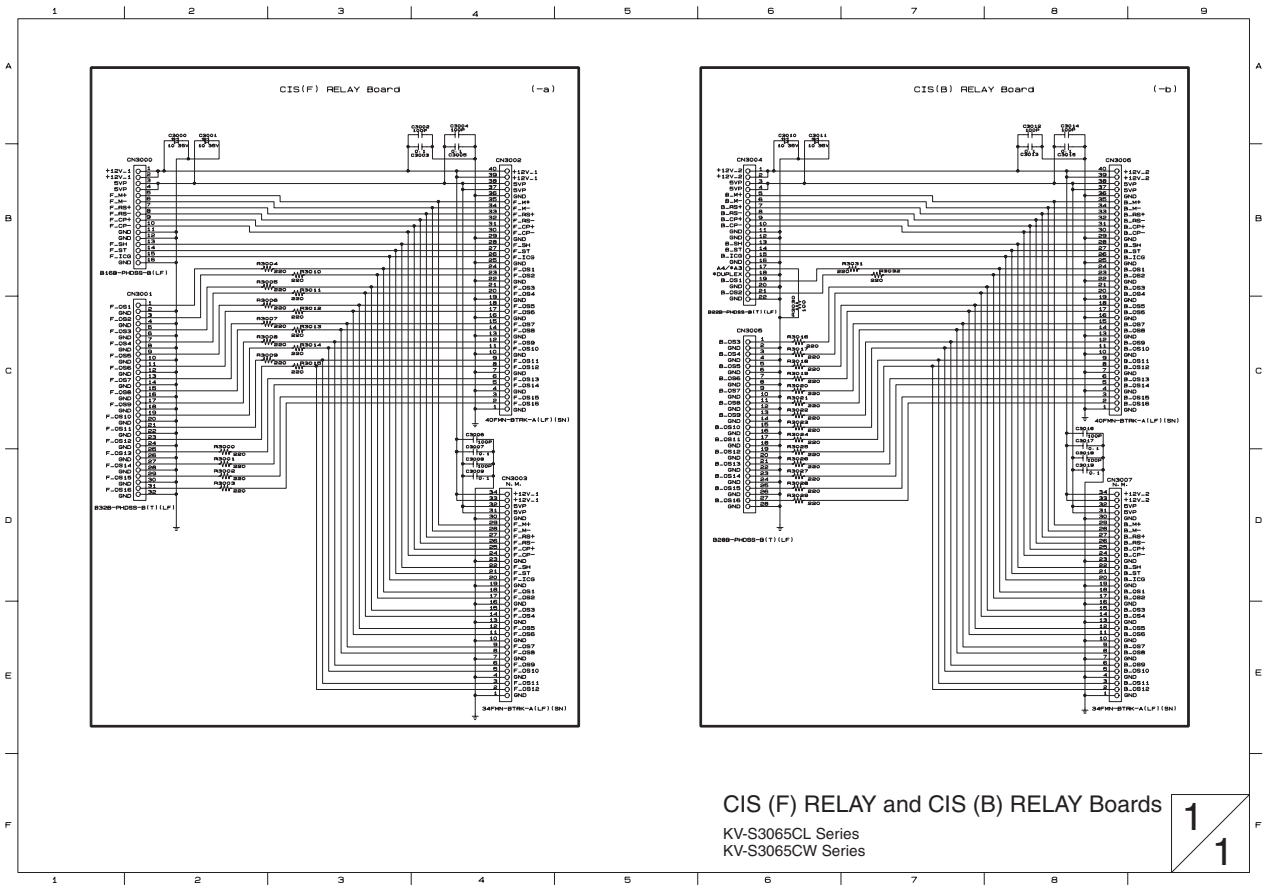
RELAY (UPPER), WAITING SENSOR, SKEW (R), STARTING SENSOR, and ENDING (FRONT) SENSOR Boards

KV-S3065CL Series
KV-S3065CW Series

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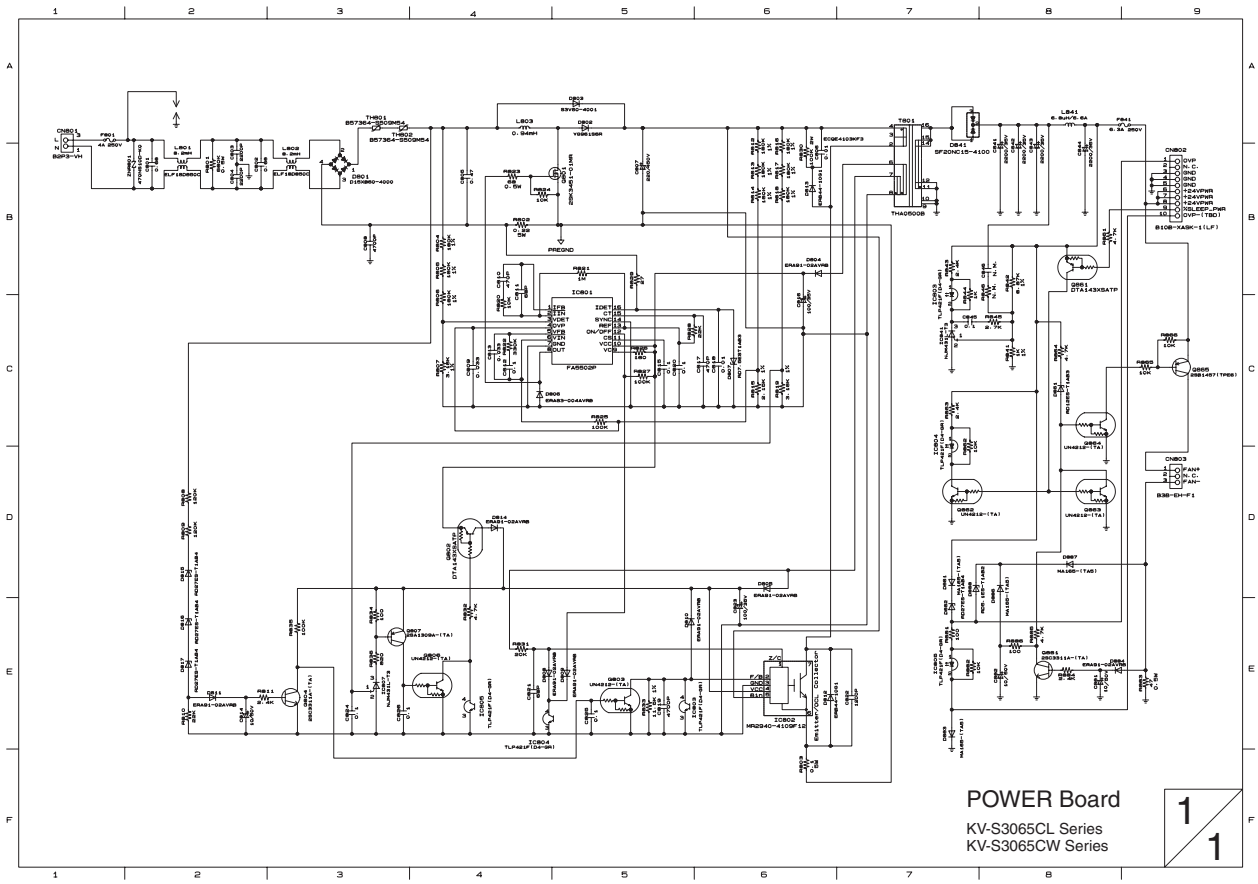
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12.5. CIS (F) RELAY and CIS (B) RELAY Boards



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12.6. POWER Board



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13 CIRCUIT BOARDS

Note: Distinction of PbF PCB

PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

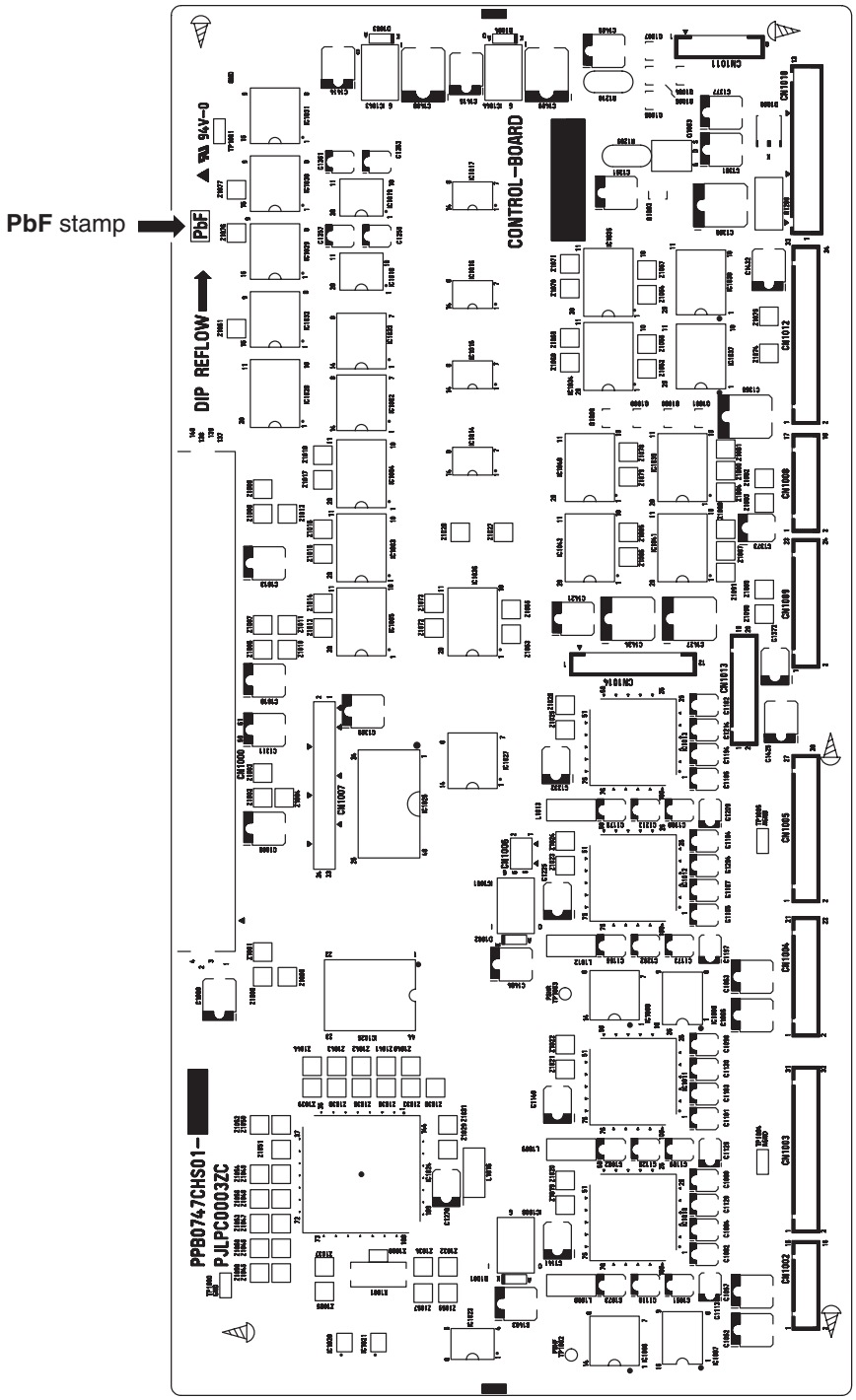
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13.19 ENDING (FRONT) SENSOR Board
13.20 POWER Board

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13.1. CONTROL Board

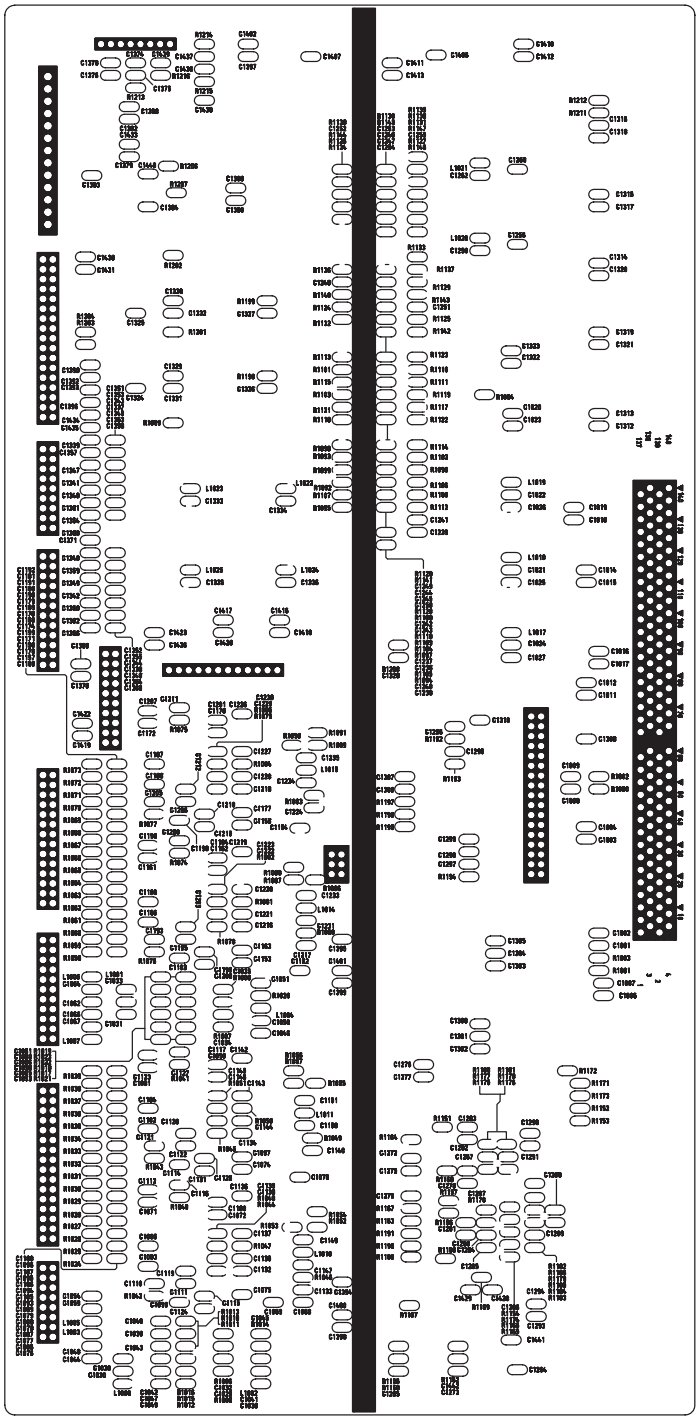
13.1.1. Front Side



Reducing to 70%.

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13.1.2. Back Side

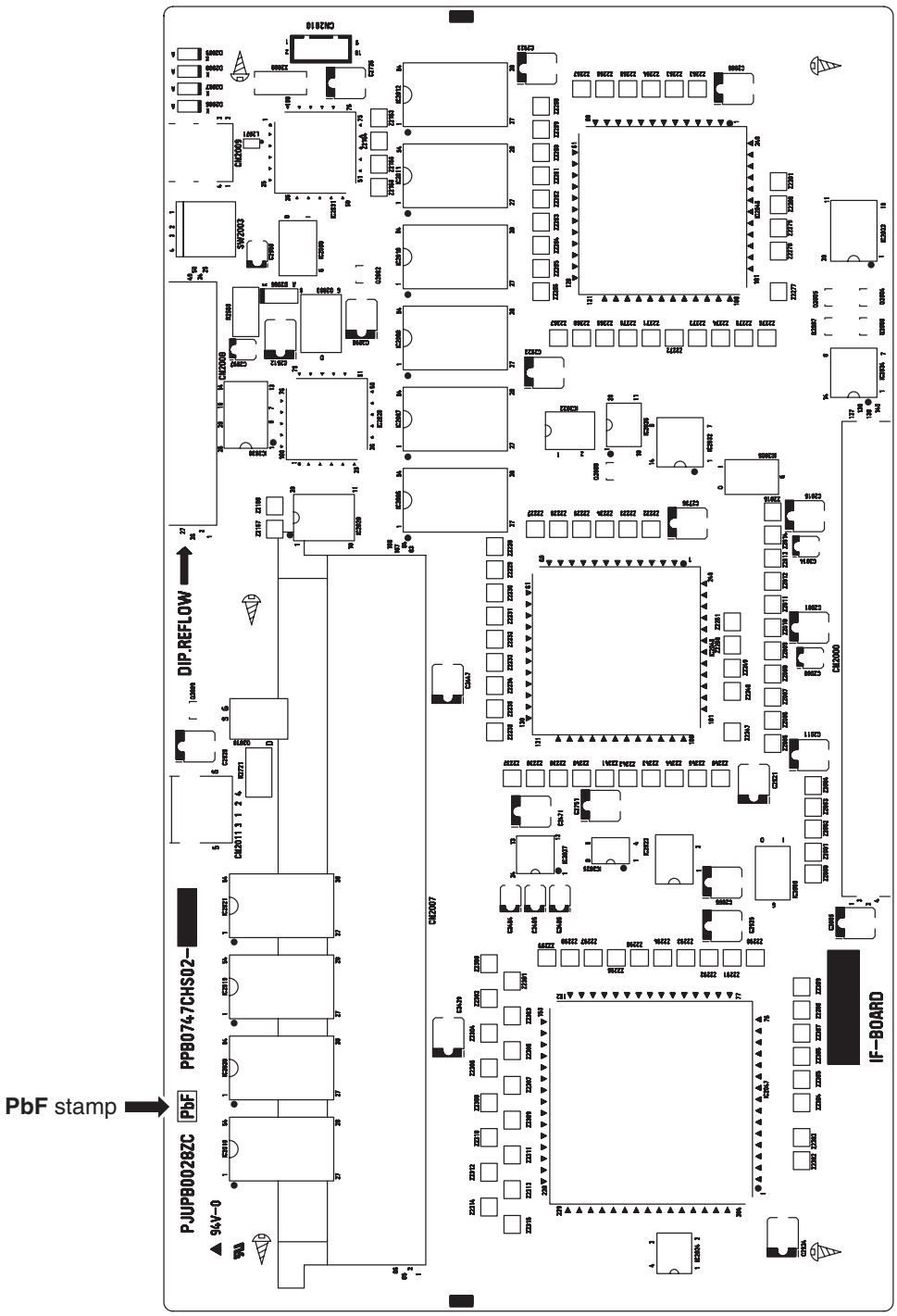


Reducing to 70%.

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13.2. INTERFACE Board

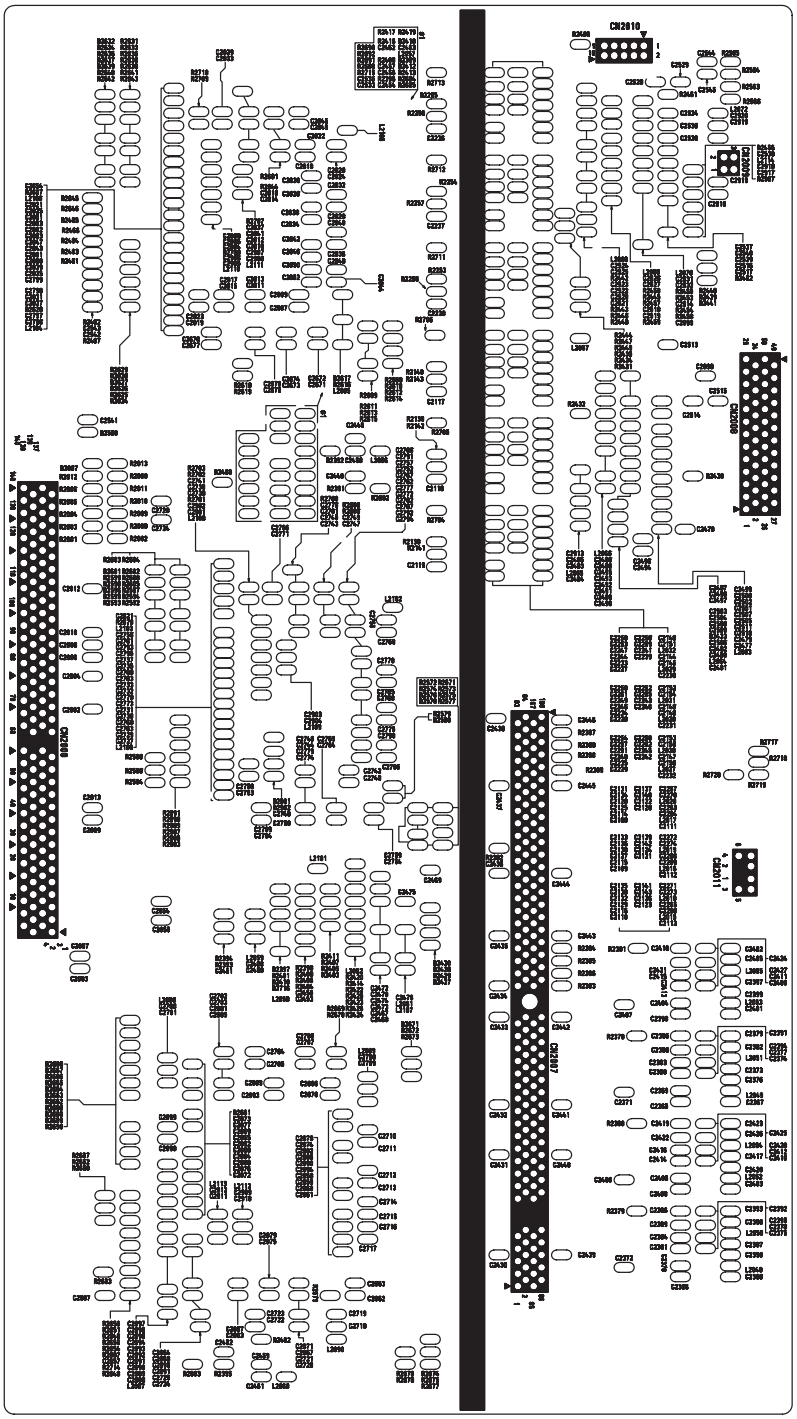
13.2.1. Front Side



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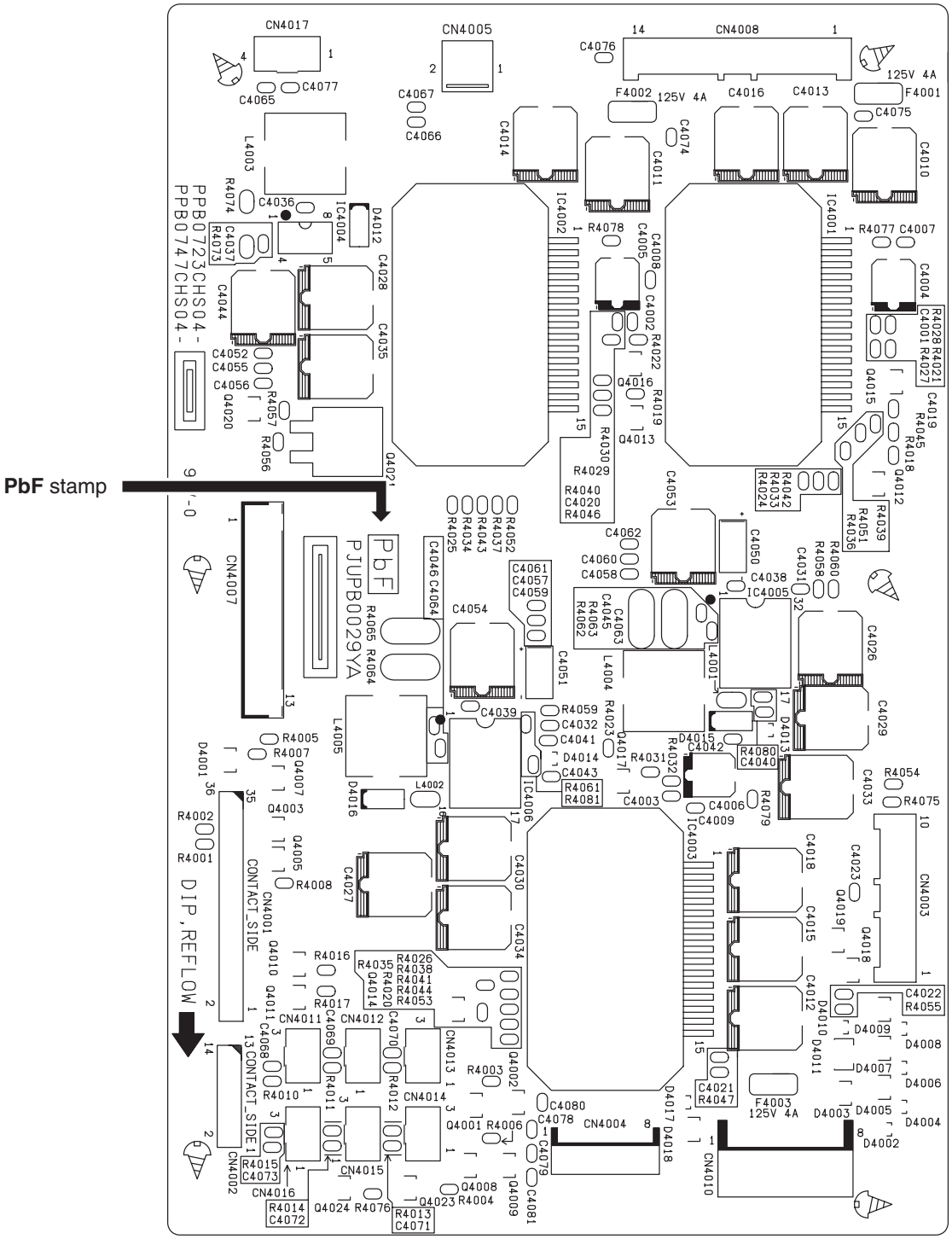
13.2.2. Back Side



Reducing to 70%.

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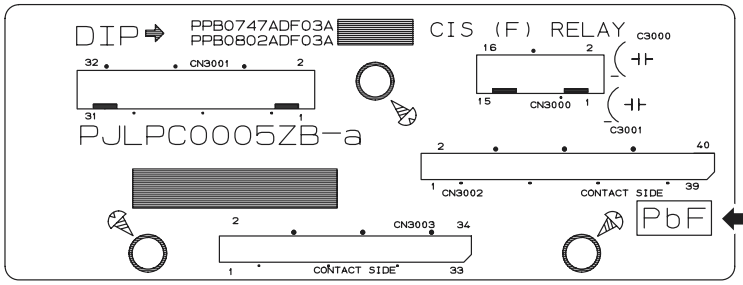
13.3. DRIVE Board



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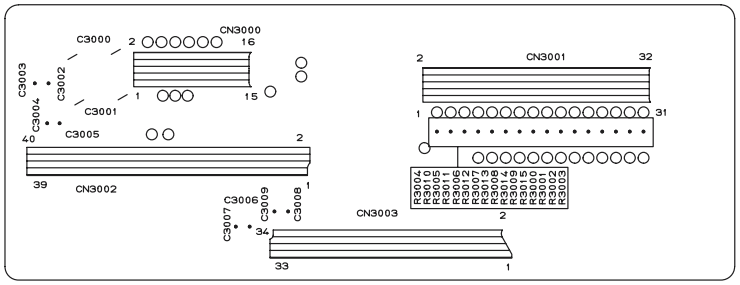
13.4. CIS (F) RELAY Board

13.4.1. Front Side



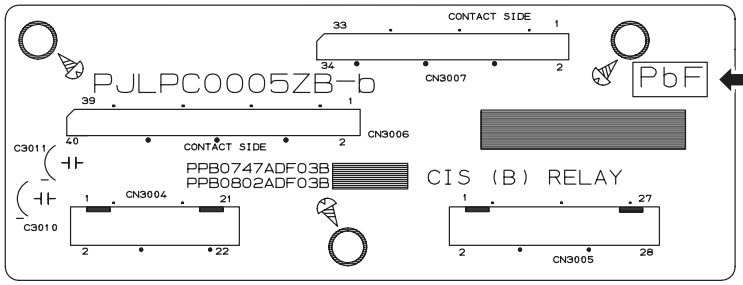
PbF stamp

13.4.2. Back Side



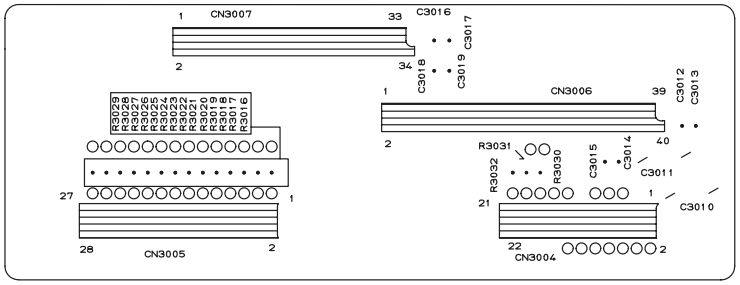
13.5. CIS (B) RELAY Board

13.5.1. Front Side



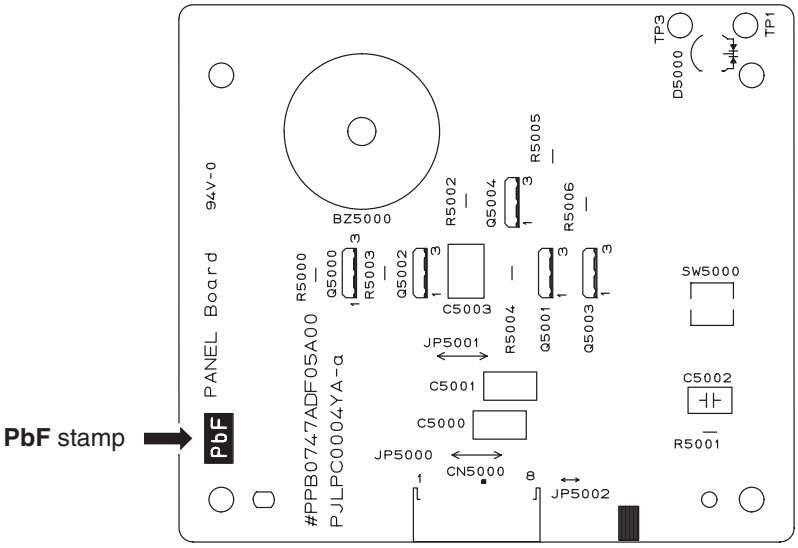
PbF stamp

13.5.2. Back Side

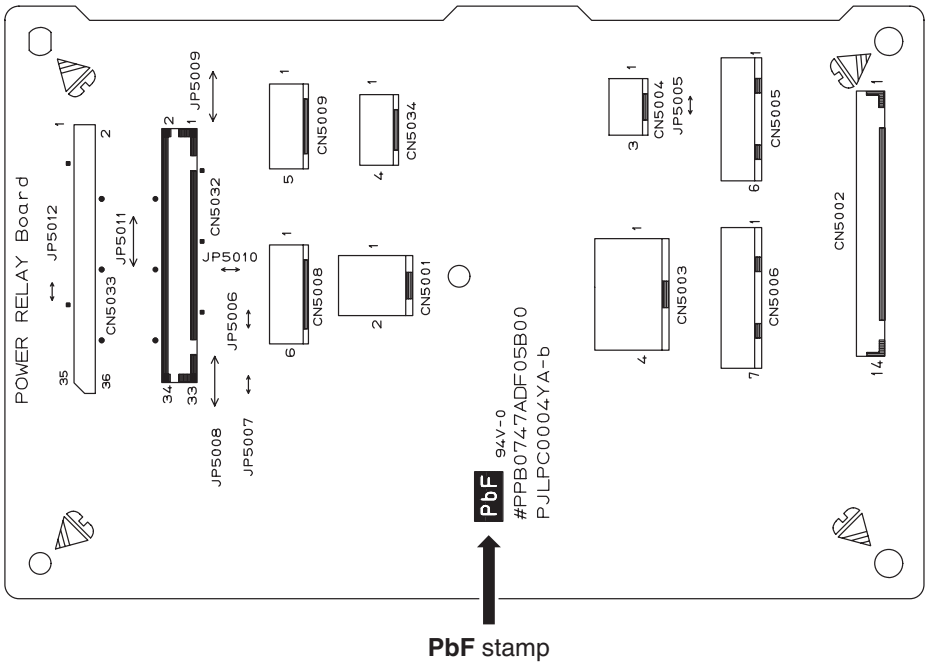


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13.6. PANEL Board

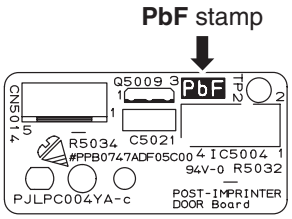


13.7. POWER RELAY Board

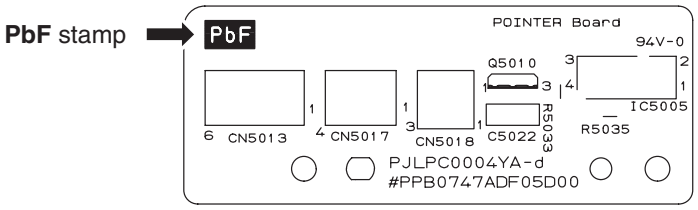


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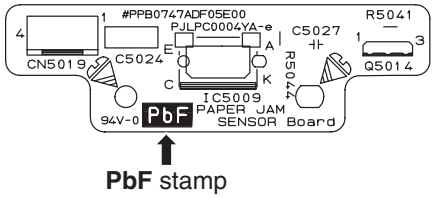
13.8. POST IMPRINTER DOOR Board



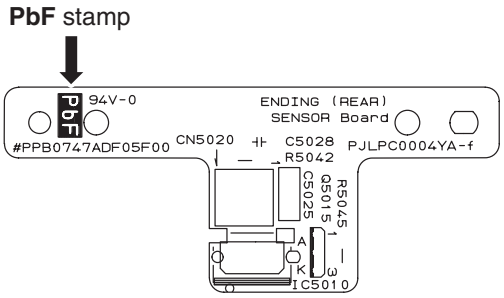
13.9. POINTER Board



13.10. PAPER JAM SENSOR Board

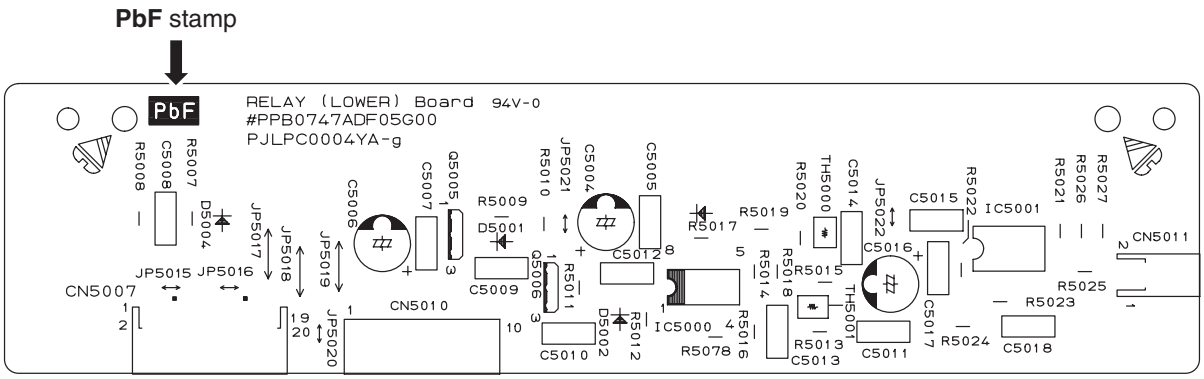


13.11. ENDING (REAR) SENSOR Board

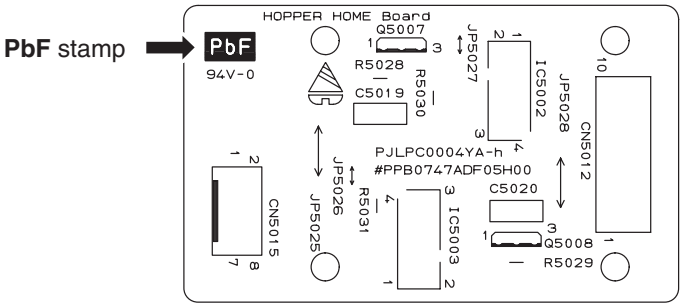


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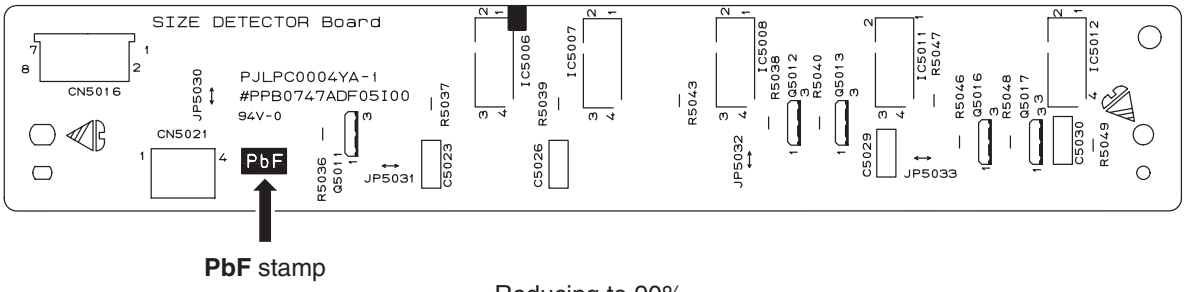
13.12. RELAY (LOWER) Board



13.13. HOPPER HOME Board



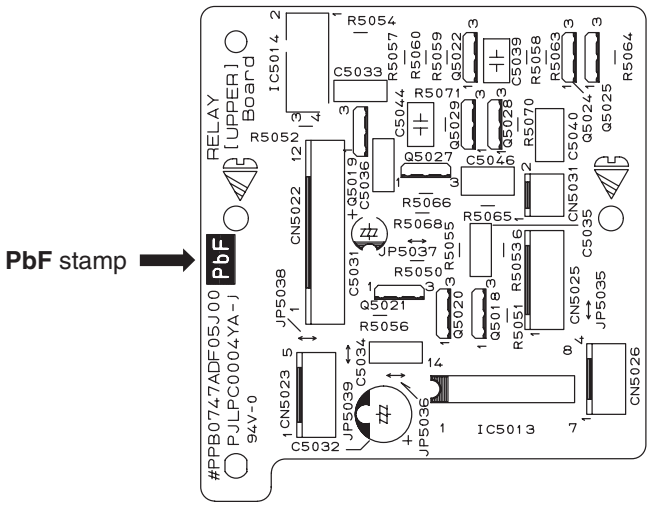
13.14. SIZE DETECTOR Board



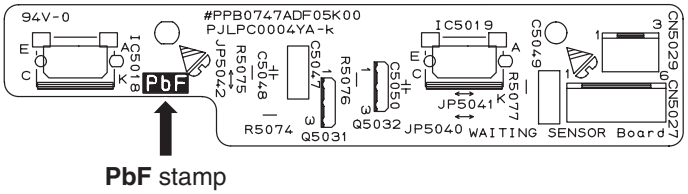
Reducing to 90%.

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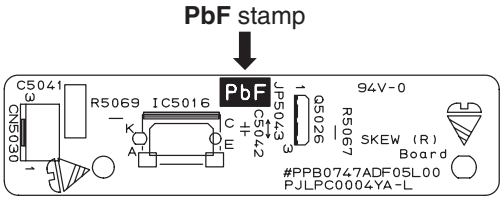
13.15. RELAY (UPPER) Board



13.16. WAITING SENSOR Board

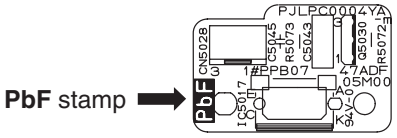


13.17. SKEW (R) Board

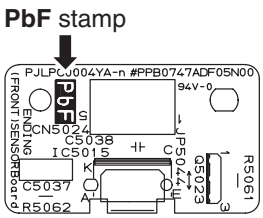


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13.18. STARTING SENSOR Board

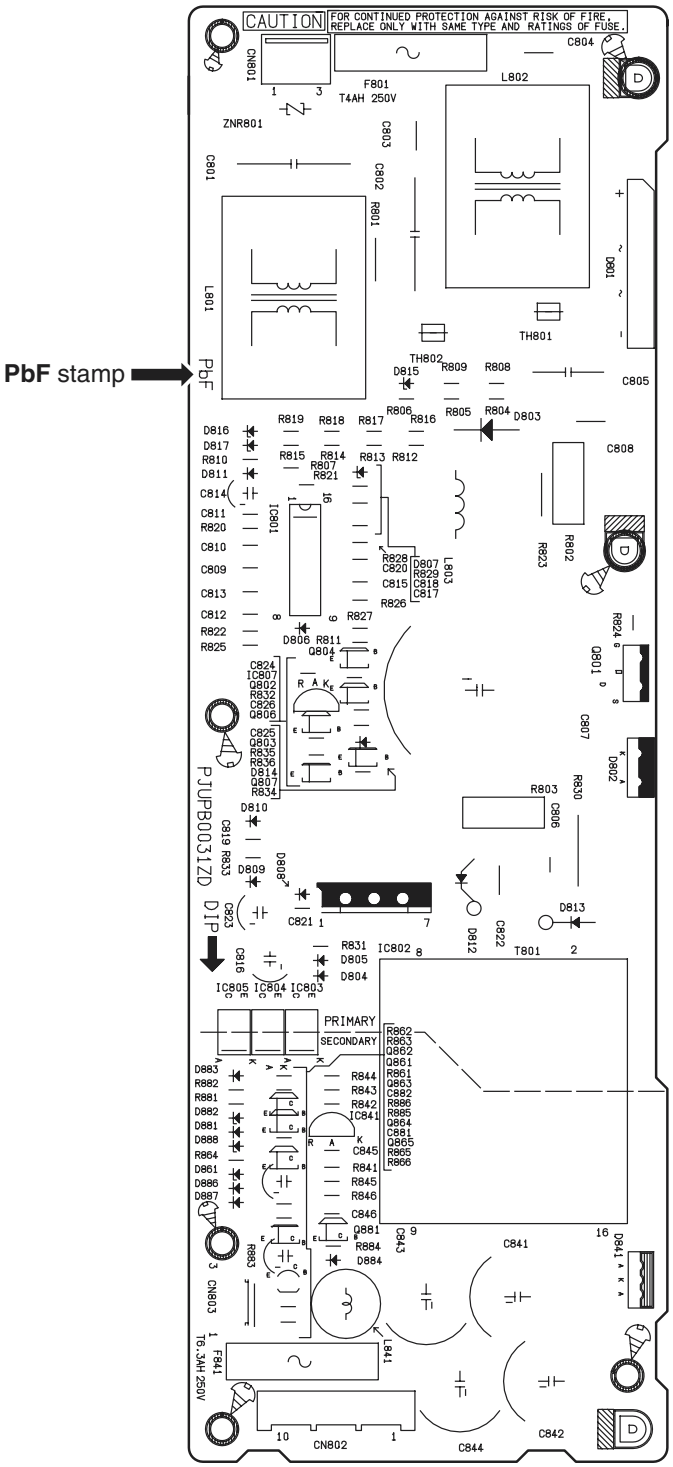


13.19. ENDING (FRONT) SENSOR Board



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13.20. POWER Board



Reducing to 80%.

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14 PARTS LOCATION AND MECHANICAL PARTS LIST

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Note: RTL (Retention Time Limited)

The mark (RTL) indicates that the Retention Time is limited for this item. After the discontinuations of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Note: TSCA (Toxic Substance Control Act)

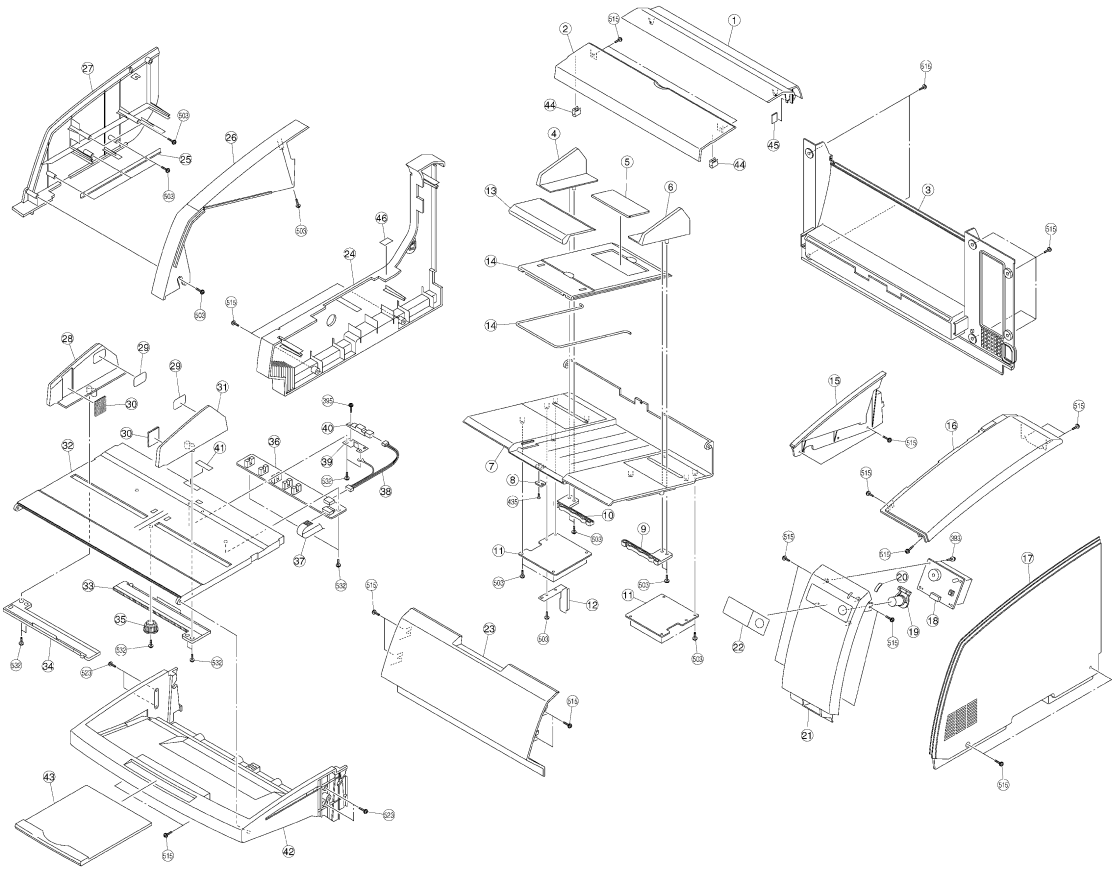
The marking (TSCA) in the Remark column indicates that the part shown in the column consist of the substances which are included in TSCA inventory.

Note: PbF (Pb Free)

"PbF" in the Remark column means Pb Free solder is used to assemble parts on the PCB assembly.

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14.1. Exterior



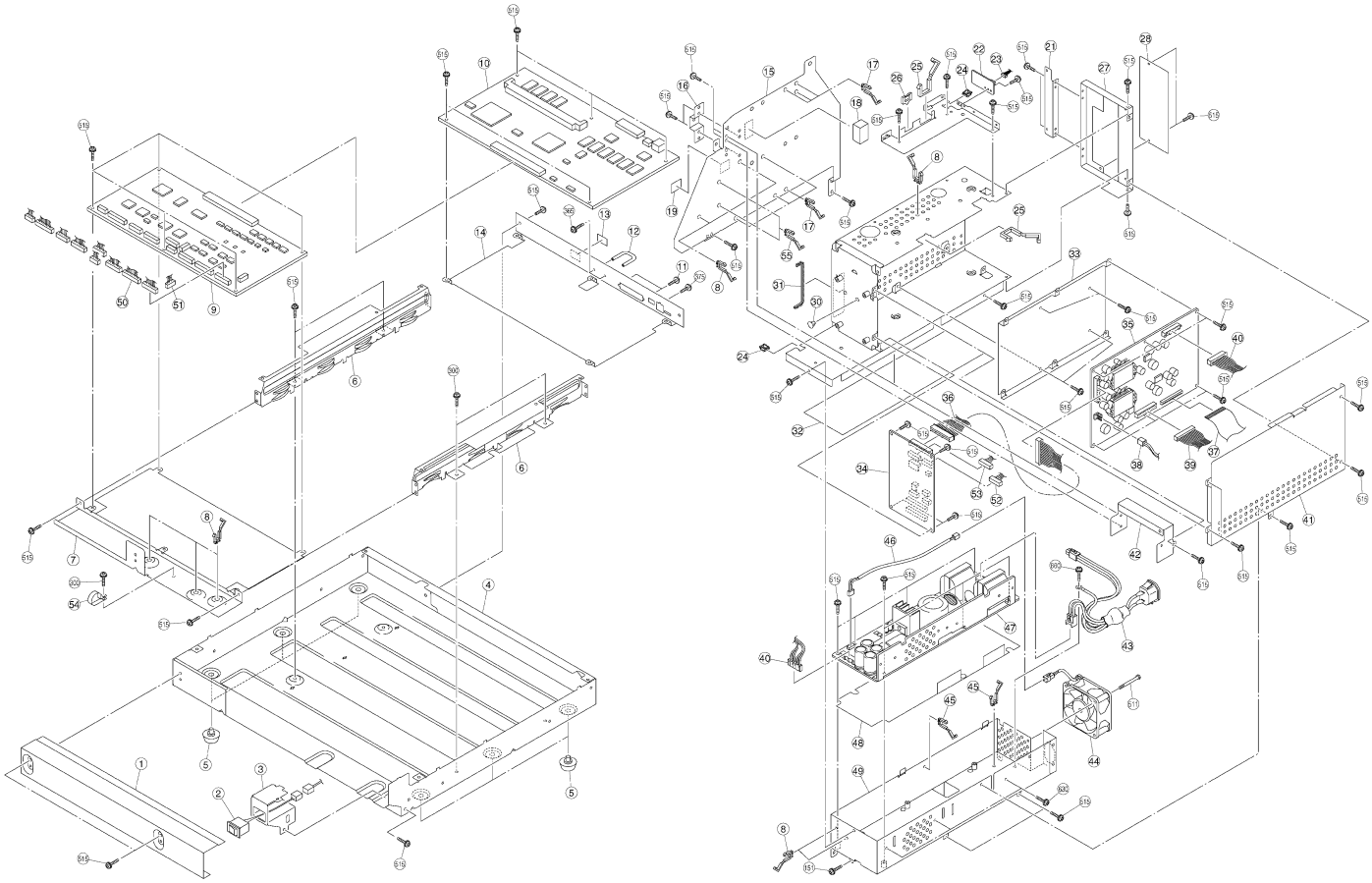
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REPLACEMENT MECHANICAL PARTS LIST (Exterior)

Ref. No.	Part No.	Part Name & Description	Remarks
1	PJKEC0005Z	Post Imprinter door	ISO: PS ⚠
2	PBKMA0042Z	Exit Cover	ISO: PS ⚠
3	PBKMA0044X-J	Rear Panel	ISO: PS ⚠
4	PJBAB0007Z	Exit Guide L	ISO: ABS
5	PBHRA0186Z	Exit Sub Stopper	ISO: ABS
6	PJBAB0006Z	Exit Guide R	ISO: ABS
7	PJBAB0005Z	Stacker	ISO: PS ⚠
8	C-91-3	Magnet	
9	PJHRB0007Z	Exit Guide Slide R	ISO: POM
10	PJHRB0008Z	Exit Guide Slide L	ISO: POM
11	PJHXB0001Z	Sheet Cover	ISO: PVC
12	PBHMA0148X	Plate	
13	PBHRA0188X	Exit Stopper	ISO: ABS
14	PBHAA0035Z	Exit Extension Tray	ISO: PS
15	PJKEC0006Z	Slit Cover	ISO: PS ⚠
16	PJKEC0002Z	Side Panel (R)	ISO: PS ⚠
17	PJKEC0004Z	Side Cover R	ISO: PS ⚠
18	PPB747ADF05A	PANEL Board	(RTL) PbF
19	PJBCC0001Z	Start Stop Button	ISO: PS
20	PBKMA0054Z	LED Cover	ISO: PS
21	PJKEC0003Z	Switch Panel	ISO: PS ⚠
22	PJGEC0011Z	Panel Sheet	ISO: PC
23	PBKMA0038V	Feed Unit Cover	ISO: PS ⚠
24	PJKEC0001Z	Side Cover (L)	ISO: PS ⚠
25	PBULA0037Y	Plate	
26	PBKMA0052Z	Feed Unit Cover (L2)	ISO: PS ⚠
27	PBKMA0039Z	Feed Unit Cover (L1)	ISO: PS ⚠
28	PBHRA0193Y	Paper Guide (L)	ISO: ABS
29	PBQAA0755Z	Label for KV-S3065CW Series	
29	PBQAA0742Z	Label for KV-S3065CL Series	
30	PBHEA0144Z	Velcro Strap	
31	PBHRA0194Y	Paper Guide (R)	ISO: ABS
32	PJHRB006Z-J1	Hopper Plate for KV-S3065CW Series	ISO: ABS ⚠
32	PJHRB0006Z-J	Hopper Plate for KV-S3065CL Series	ISO: ABS ⚠
33	PBDGA0045Z	Document Guide Rack (R)	ISO: POM
34	PBDGA0044Z	Document Guide Rack (L)	ISO: POM
35	PJDG50133Z-1	Pinion	ISO: POM
36	PPB747ADF05I	SIZE DETECTOR Board	(RTL) PbF
37	PJJEC3437Z	Size Sensor FFC Cable	
38	PJJRC2462Z	Paper Sensor Cable	
39	PBMDA0573Y	Plate	
40	B3NZB0000006	Photo Coupler (Paper Sensor)	
41	PBHEA0143Z	Sheet	
42	PBKMA0047Z	Hopper Base	ISO: ABS ⚠
43	PBKMA0049Z	Hopper Extension Tray	ISO: ABS
44	PJUSB0102Z	Exit Cover Plate	
45	PJHEC0069Z	Black Sheet	ISO: PC
46	PJQTC0085Z	W/B Direction Sign	
383	XTB3+10GFJ	Screw	
395	XTB3+6FFJ	Screw	
435	XTS3+10GFJ	Screw	
503	XTW3+U10PFJ	Screw	
515	XTW3+U6LFJ	Screw	
532	XTW3+U8PFJ	Screw	

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14.2. Board Box Unit and others



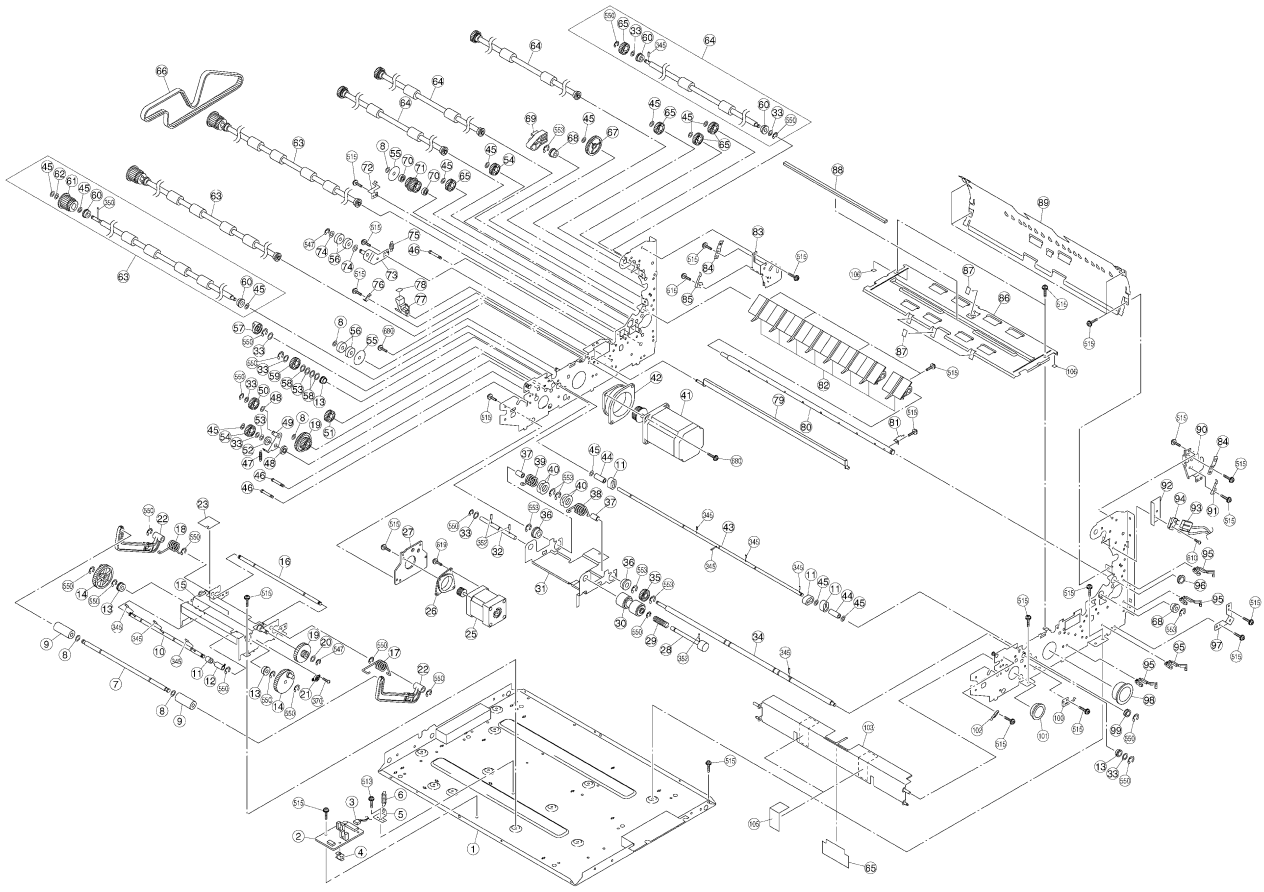
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REPLACEMENT MECHANICAL PARTS LIST (Board Box Unit and others)

Ref. No.	Part No.	Part Name & Description	Remarks
1	PJKAC0001Z	Front Cover	
2	PJJRC2475Y	Power Switch Cable	⚠
3	PJMDC0027Z	AC Switch Plate	
4	PJUAC0043Z	Board Base Frame	
5	NF35A7	Rubber Foot	
6	PJMEC0038Z	Board Rail	
7	PJMEC0057Z	MAIN Board Plate	
8	LWS-3S-2WV0	Locking Wire Saddle	
9	PPB747CHS01	CONTROL Board	(RTL) PbF
10	PPB747CHS02	INTERFACE Board	(RTL) PbF
11	2-56UNCX1/4	Screw	
12	A-46-5	Handle	
13	PBQAA0799Z	SCSI Label	
14	PJMDB0269Z	I/F Board Plate	
15	PBHMA0134Y	Plate	
16	PBMDA0537Y	Plate	
17	LWS-1S	Locking Wire Saddle	
18	PBHEA0169Z	Transportation Rubber	
19	PBQAA0751Z	Label	
20	PJMEC0019Z	Board Box Stay	
21	PBHMA0143Y	Plate	
22	PPB747ADF05C	POST IMPRINTER DOOR Board	(RTL) PbF
23	PJJRC2465Z	Post-Imprinter Door Cable	
24	EDS-0607M	Edge Saddle	
25	EDS-17L	Lock Edge Saddle	
26	EDS-1	Edge Saddle	
27	PBMCA0091Y	Mechacon Box (Rear)	
28	PJHEC0053Z	Board Box Cover	ISO: PC ⚠
29	PBMCX0089X	PCB Box Assy	
30	KGPS-6RF	Spacer	
31	KG008-L86	Bush	
32	PJHXC0002Z	Power Sheet 2	ISO: PPE
33	PJMEC0039Z	DRIVE Board Plate	
34	PPB747ADF05B	POWER RELAY Board	(RTL) PbF
35	PPB747CHS04	DRIVE Board	(RTL) PbF
36	PJJRC2468Z	PWR_RLY Motor Cable	
37	PJJEC3436Z	PWR_RLY-DRV FFC	
38	PJJRC2467Z	PWR_RLY 24 V Cable	
39	PJJRC2450Y	CONT-DRV Cable	
40	PJJRC2470Z	PWR-DRV Cable	
41	PBMCA0087Y	Mechacon Box Cover	
42	PBHMA0135Y	Plate	
43	PJJRC2457Y	AC Inlet Cable	⚠
44	L6FAKEDK0008	Fan	⚠
45	LWS1SV0BK	Locking Wire Saddle	
46	PJJRB0659Z	Cable	
47	PPB747CHS06	POWER Board	(RTL) PbF
48	PJHXB0018Z	Power Sheet 1	ISO: PPE ⚠
49	PJMCC0014Z	Power Box Assy	
50	PJJRC2469Z	PWR_RLY-CONT Cable	
51	PJJRC2460Z	Panel Cable	
52	PJJRC2451Z	Conveyor Motor Cable	
53	PJJRC2455Z	Feed Motor Cable	
54	AL12	Clamper	
55	LWS-3S	Clamper	
300	RTP3+8(3)BC	Screw	
365	XSB26+6FJ	Screw	
375	XSN3+6FJ	Screw	
511	XTW3+U30LFJ	Screw	
515	XTW3+U6LFJ	Screw	
630	XYN3+J8FJ	Screw	
660	XYN4+F6FJ	Screw	

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14.3. Chassis and Base 1



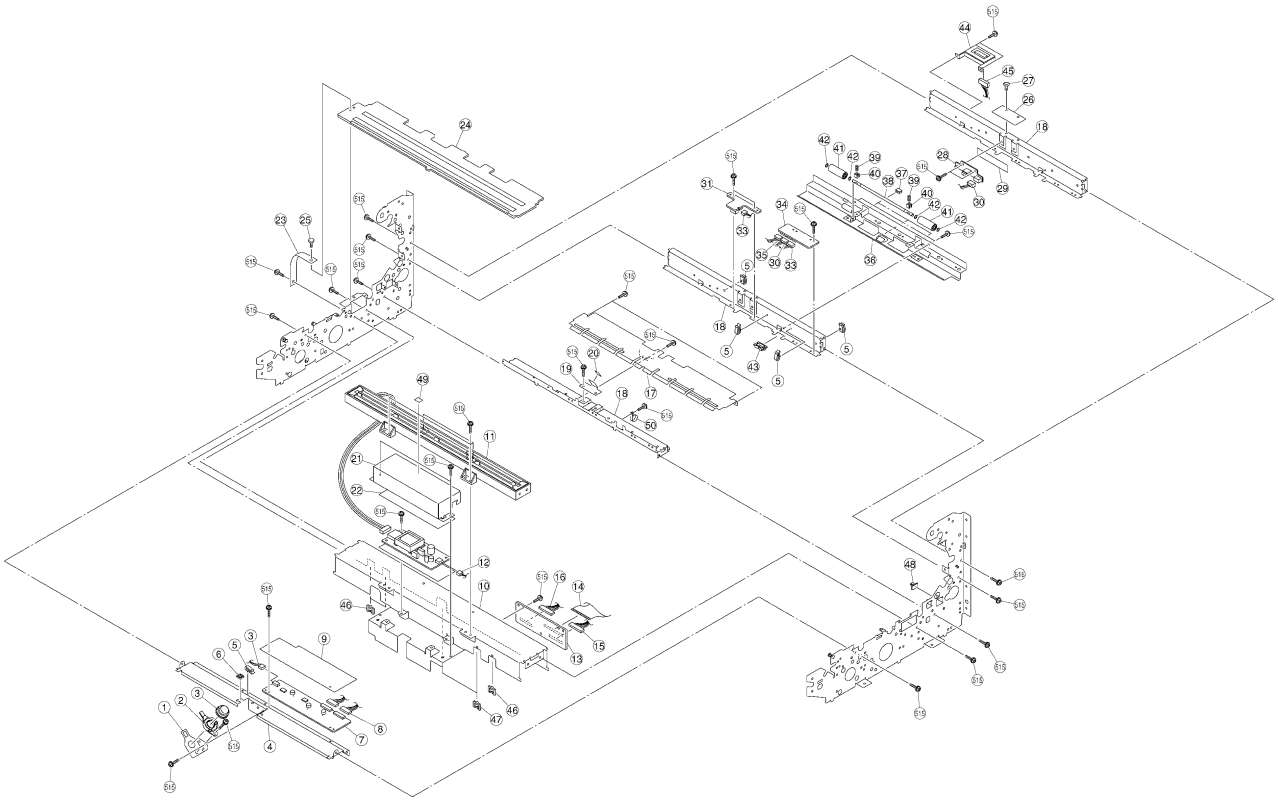
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REPLACEMENT MECHANICAL PARTS LIST (Chassis and Base 1)

Ref. No.	Part No.	Part Name & Description	Remarks
1	PBUEX0096X	Bottom Plate-ASSY	
2	PPB747ADF05H	HOPPER HOME Board	(RTL) PbF
3	PJJRC2456Z	Hopper Home Cable	
4	WLS12-0	Bushing	
5	PBMDA0111Y	Attachment Fitting	
6	PJBVC0082Z	Counter Spring	
7	PJDPB0003Y	Hopper Pressure Shaft	
8	PJNW4111Z	Spacer	ISO: PA
9	PBDRA0029Z	Free Roller	ISO: POM
10	PBDFA0105Z	Hopper Cam Shaft	
11	PBDGA0056Z	Hopper Powerful Cam	ISO: POM
12	PBHRA0023Z	Hopper Cam Shutter	ISO: ABS
13	B-F6-171	Bearing	
14	PBDGA0065Z	Hopper Cam	ISO: POM
15	PBMDX0466Y	Hopper Support Plate Assembly	
16	PBDFA0104Z	Hopper Shaft	
17	PBDSA0096Y	Hopper Spring 1	
18	PBDSA0103Y	Hopper Spring 2	
19	PBDGA0033Y	Slow Shift Gear	ISO: POM
20	RWPS5-025	Spacer	
21	NF-2050C	Oil Damper	
22	PBKMA0046Z	Hopper Arm	ISO: POM
23	PJHEC0073Z	Hopper Home Board Sheet 1	ISO: PC
24	PJHEC0074Z	Hopper Home Board Sheet 2	ISO: PC
25	L6HBHJGC0008	Steping Motor	
26	RF1401-A5	Motor Mount	
27	PBMDA0459Y	Motor Fitting Plate	
28	PBDEA0117Z	Retard Roller Fitting Pin	
29	PBDSA0102Y	Retard Roller Fitting Spring	
30	PJDRC0054Y	Retard Roller	
31	PBMDX0463X	Retard Unit Plate Assy	
32	PJDPB0159Z	Retard Shaft 2	
33	RWPS6-025	Spacer	
34	PBDFA0110Y	Retard Unit Fitting Shaft	
35	PBDGA0055Z	Separation Drive Gear	
36	DDLF-1280ZZH	Ball Bearing 2	
37	B-S8-5	Spacer	
38	PBDSA0092Z	Retard Pressure Spring	
39	PBDSA0125Z	Retard Roller Fitting Spring	
40	RWPS10-100	Polyslider	
41	L6HBKJGD0003	Steping Motor	
42	PBHE28Z	Damper	
43	PBDFA0100Y	Retard Regulation Shaft	
44	MWSP6-22-J	Spacer	
45	PJNW525Z	Spacer	ISO: PA
46	PBHDA0001Y		
47	PBDSA0093Z	Spring	
48	PBDRA0031Z	Pitch Roller 2	ISO: POM
49	PBMDX0465Y	Joint Plate Assy	
50	PJDG50326Z	Gear	ISO: POM
51	PBDGA0008Y	Scanner Drive Gear	ISO: POM
52	PBDRA0030Z	Pitch Roller 1	ISO: POM
53	RWPS6-050	Polyslider	
54	PBDGA0038Z	Retard Gear	ISO: POM
55	RWPS5-100	Spacer	
56	DR-20-H5	Tension Roller	
57	PBHRA0183Z	Adjusting Knob	ISO: ABS
58	RWPS6-100	Spacer	
59	PBDGA0013Z	Paper Feed Gear	
60	DDLF-1260ZZR	Bearing	
61	PBDGA0058Z	Drive Pulley Gear	
62	PJNW610Z	Spacer	ISO: PA
63	PJDRC0034Z-J	Drive Roller	
64	PJDRB0004Z-J	Conveyor Roller	
65	PBHEA0116Z	Sheet	
66	B80SZM530	Belt	
67	PBDGA0032Z	Intermediate Gear	ISO: POM
68	PBFV4Z	Bushing	ISO: POM
69	PBHRA0180Z	Pointer Change Knob	ISO: ABS
70	DDL-850ZZH	Ball Bearing	
71	PBDGA0059Z	Pulley Gear	ISO: POM
72	PBUSA0034Z	Pointer Change Spring	
73	PBMDX0468Y	Tension Plate Assy	
74	RWPS5-10025	Polyslider	
75	PBDSA0094Z	Tension Spring	
76	PJBUC0013Z	Sensor Spring	
77	PJBCC0025Z	Lever	
78	PJQTC0093Z	W/B Arrow Sign	
79	PJMEC0051Z-J	Reference Plate (B) Assy	
80	PBDFA0094Z	Pointer Shaft	
81	PBHMA0133Y	Pointer Change Plate	
82	PBHRA0117Z	Pointer Change Plate	
83	PJMEC0017Z	Imprinter Plate L	
84	PBUSA0047Z	Imprinter Door Lock Spring	
85	PJUSB0099Z	Imprinter Lock Spring	
86	PJUEC0035Z	Conveyor Lower 2 Assy	
87	PJHEC0007Y	Reflector Sheet	ISO: PC
88	PBHRX0150Z	Ink Absolution Felt Assy	
89	PJUEC0032Z	Turn Conveyor Outer	
90	PJMEC0018Z	Imprinter Plate R	
91	PJUSB0100Z	Imprinter Lock Spring	
92	PJMEC0056Z	Switch Guard	
93	PJJRC2445Z	ADF Door Switch cable	
94	K0KAAF000008	Micro Switch	
95	LWS-1S	Locking Wire Saddle	
96	TB-9513	Bush	
97	PBMDA0455Y	Gas Spring Fitting Plate	
98	TB-2533	Bush	
99	PBDG3Z	Cam	ISO: POM
100	PBUS8Z	Conveyor Spring	
101	TB-1926	Bushing	
102	PBDSA0079Z	Conveyor Lock Spring (R)	
103	PBUEX0097Y	Conveyor Lower 1 Assy	
104	PJHEC0069Z	Black Sheet	
105	PJHEC0079Z	Sheet	
345	XPJ2C10VW	Pin	
350	XPL2B10WVW	Pin	
352	XPL2B12WVW	Pin	
370	XSN2+5FJ	Screw	
513	XTW3+U4LFJ	Screw	
515	XTW3+U6LFJ	Screw	
547	XUC4FJ	E-ring	
550	XUC5FJ	E-ring	
553	XUC6FJ	E-ring	
610	XYN23+J12FJ	Screw	
619	XYN3+J6FJ	Screw	
680	XYN4+J10FJ	Screw	

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14.4. Chassis and Base 2



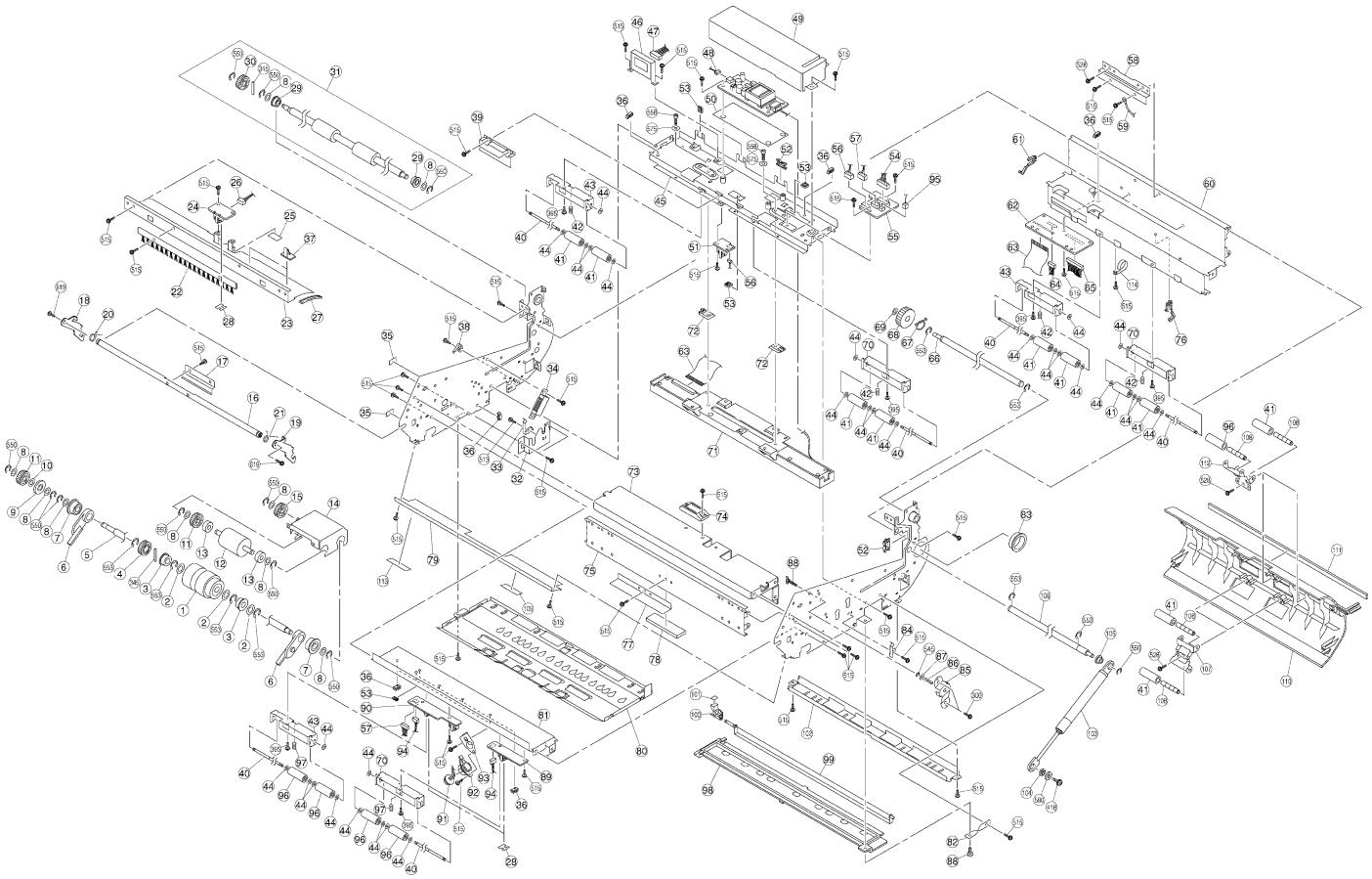
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REPLACEMENT MECHANICAL PARTS LIST (Chassis and Base 2)

Ref. No.	Part No.	Part Name & Description	Remarks
1	PJMEC0015Z	Double Feed Sensor Plate Lower	
2	PJHRB0673Z	Double Feed Spacer	ISO: ABS
3	L2FA00000005	SENSOR Unit (Double Feed Detector)	
4	PJULC0013Z	Reinforce Plate Lower 1	
5	YMC10-0	Clamp	
6	EDS-0607M	Edge Saddle	
7	PPB747ADF05G	RELAY (LOWER) Board	(RTL) PbF
8	PJJRC2471Z	Relay (Lower) Cable	
9	PJHEC0068Z	Relay Lower Board Sheet	ISO: PC
10	PJULC0014Z	Reinforce Plate Lower 2	
11	L2CC0009-J	SENSOR Unit for KV-S3065CW Series	
11	L2CC0013-J	SENSOR Unit for KV-S3065CL Series	
12	PJJRC2458Z	Lamp Drive (B) Cable	
13	PPB747ADF03B	CIS (B) RELAY Board for KV-S3065CW Series	(RTL) PbF
13	PPB802ADF03B	CIS (B) RELAY Board for KV-S3065CL Series	(RTL) PbF
14	PJJEC3438Z	A3 CIS FFC for KV-S3065CW Series	
14	PJJEC3439Z	A4 CIS FFC for KV-S3065CL Series	
15	PJJRC2446Y	CIS (B) Relay Cable 1	
16	PJJRC2447Y	CIS (B) Relay Cable 2	
17	PBUEX0100Y	Exit Conveyor	
18	PJULC0015Z	Reinforce Plate Lower 3	
19	PJMEC0034Z	Reflector Plate	
20	PJHEC0007Y	Reflector Sheet	ISO: PC
21	PJMEC0009Z	Inverter Cover Lower	
22	PJHXC0007Z	Inverter Sheet Lower	ISO: PPE ⚠
23	PJHEC0070Z	Screw Holder Sheet	ISO: PET ⚠
24	PJHRC0213Z-J	Image Sensor Cover (B) for KV-S3065CW Series	ISO: PC ⚠
24	PJHRC213Z-J1	Image Sensor Cover (B) for KV-S3065CL Series	ISO: PC ⚠
25	PJNEC0006Z	Screw	
26	PBHEA0111Z	Sheet Cover	
27	VJF0036	Rivet	
28	PPB747ADF05E	PAPER JAM SENSOR Board	(RTL) PbF
29	PJHEC0072Z	JAM SENSOR Board Sheet	
30	PJJRC2461Z	Paper Jam Sensor Cable	
31	PPB747ADF05F	ENDING (REAR) SENSOR Board	(RTL) PbF
33	PJJRC2454Z	Ending (Rear) Sensor Cable	
34	PPB747ADF05D	POINTER Board	(RTL) PbF
35	PJJRC2463Z	Pointer Cable	
36	PJUEC0040Z	Exit Conveyor Upper Assy	
37	PJMEC0055Z	Discharge Brush	
38	PJDFC0068Z	Exit Free Roller Shaft	
39	PBDSA0090Z	Free Roller Pressure	
40	PJDJA0016Z	Roller Bear	ISO: POM
41	PJDRC0077Z	Free Roller	ISO: POM
42	PJNW4111Z	Spacer	ISO: PA
43	EDS-1	Edge Saddle	
44	PJMEC0035Z	Imprinter Connector Plate	
45	PJJRC2464Z	Post-Imprinter Cable	
46	EDS-1208U	Edge Saddle	
47	EDS-17L	Lock Edge Saddle	
48	K-103G	Clamper	
49	PJQTC0083Z	Hot Surface Label	
50	AL8	Clamper	
515	XTW3+U6LFJ	Screw	

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14.5. Chassis and Base 3



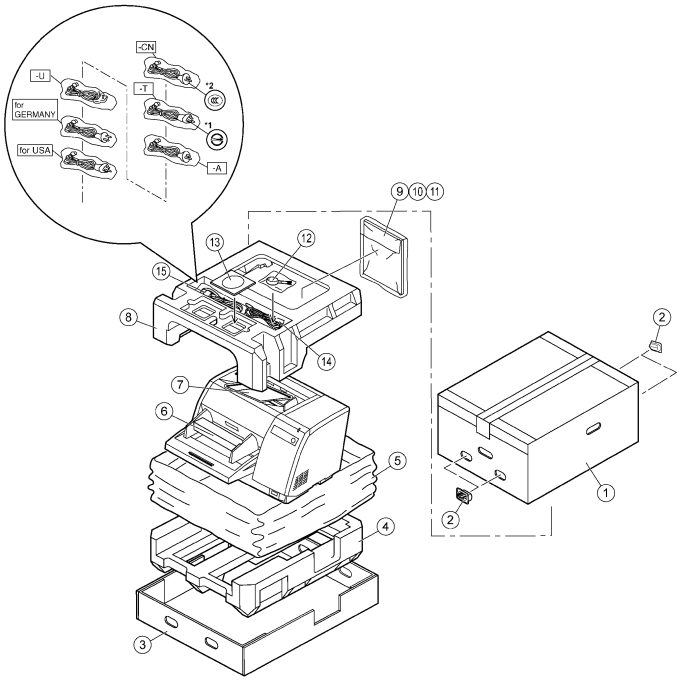
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REPLACEMENT MECHANICAL PARTS LIST (Chassis and Base 3)

Ref. No.	Part No.	Part Name & Description	Remarks
1	PBDRA0065Z	Separation Roller	
2	RWPS8-025	Polyslider	
3	DDLF-1280ZZH	Ball Bearing 2	
4	PBDGA0055Z	Separation Drive Gear	
5	PBDFA0133Z		
6	PBHEA0119Y	Paper Feed Lever	ISO: POM
7	DDLF-1360ZZR	Bearing	
8	RWPS6-025	Spacer	
9	PBDRA0030Z	Pitch Roller 1	ISO: POM
10	RWPS6-050	Polyslider	
11	PBDGA0013Z	Paper Feed Gear	
12	PBDRA0064Z	Paper Feed Roller	
13	B-F6-171	Bearing	
14	PBMDX0462Y	Feed Unit Plate Assy	
15	PJDG50326Z	Gear	ISO: POM
16	PBDFA0096Z	Release Shaft	
17	PBUL30Y	Lock Release Plate	
18	PJMDB0016Y	Release Lever L	
19	PJMDB0015Y	Release Lever R	
20	PBDSA0088Z	Release Lever Spring (L)	
21	PBDSA0089Z	Release Lever Spring (R)	
22	PBMEA0010Z	Discharge Brush	
23	PJMEC0007Z	Discharge Brush Fitting Plate	
24	PPB747ADF05N	ENDING (FRONT) SENSOR Board	(RTL) PbF
25	PJHEC0067Z	Discharge Plate Sheet	
26	PJJRC2453Z	Ending (Front) SensorCable	
27	KG-010-L30	Bush	
28	PJHEC0080Z	Filter IR 76	
29	DDLF-1260ZZR	Bearing	
30	PBDGA0008Y	Scanner Drive Gear	ISO: POM
31	PJDRB0005Z-J	Exit Roller	
32	PJMEC0016Z	Imprinter Plate Upper	
33	PJUSB0099Z	Imprinter Lock Spring	
34	C-54-2	Magnet	
35	PBHEA0186Z	Rubber	
36	YMC10-0	Clamp	
37	K-103G	Clamper	
38	PJBUC0013Z	Sensor Spring	
39	PJMEC0010Z	Starting Sensor Cover	
40	PJDFC0067Z	Free Roller Shaft	
41	PJDRC0077Z	Free Roller	ISO: POM
42	PJBVC0081Z	Free Roller Spring 2	
43	PJMEC0021Z	Free Roller Plate R	
44	PJNW4111Z	Spacer	ISO: PA
45	PJULC0010Z	Reinforce Plate Upper 2 ASSY	
46	PJMEC0035Z	Imprinter Connector Plate	
47	PJJRC2466Z	Pre Imprinter Cable	
48	PJJRC2459Z	Lamp Drive (F) Cable	
49	PJMEC0008Z	Relay Board Cover Upper	
50	PJHXC0006Z	Inverter Sheet Upper	ISO: PPE ⚠
51	PPB747ADF05M	STARTING SENSOR Board	(RTL) PbF
52	EDS-1	Edge Saddle	
53	EDS-0607M	Edge Saddle	
54	PJJRC2472Z	Relay (Upper) Cable	
55	PPB747ADF05J	RELAY (UPPER) Board	(RTL) PbF
56	PJJRC2474Z	Starting Sensor Cable	
57	PJJRC2476Z	Waiting Sensor Cable	
58	PBULA0161Y	Plate	
59	PJJTC0013Z	FG Cable 1	
60	PJULC0012Z	Reinforce Plate Upper 3	
61	LWS-1S	Locking Wire Saddle	
62	PPB747ADF03A	CIS (F) RELAY Board for KV-S3065CW Series	(RTL) PbF
62	PPB802ADF03A	CIS (F) RELAY Board for KV-S3065CL Series	(RTL) PbF
63	PJJEC3438Z	A3 CIS FFC for KV-S3065CW Series	
63	PJJEC3439Z	A4 CIS FFC for KV-S3065CL Series	
64	PJJRC2448Y	CIS(F) Relay Cable 1	
65	PJJRC2449Y	CIS(F) Relay Cable 2	
66	PJDFC0066Z	Sub Chassis Shaft	
67	PJBWC0049Z	Feed Unit Release Spring	
68	PBDGA0030Z	Idler Gear-1BD	ISO: POM
69	PJNW525Z	Spacer	ISO: PA
70	PJMEC0020Z	Free Roller Plate L	
71	L2CC0009-J1	SENSOR Unit for KV-S3065CW Series	
71	L2CC0013-J1	SENSOR Unit for KV-S3065CL Series	
72	PJBUC0068Z	CIS Spring	
73	PBULA0135X	Reinforcement Plate (U) 4	
74	C-91-3	Magnet	
75	PBULA0133Y	Reinforcement Plate (U) 2	
76	LWS-3S	Clamper	
77	PBHMA0142Y	Plate	
78	PBHEA0106Z	Magnet Sheet	
79	PBUEA0101Z	Conveyor (Upper) 1	
80	PJUEC0033Z	Conveyor Upper 2	
81	PJULC0009Z	Reinforce Plate Upper 1	
82	PJHEC0070Z	Screw Holder Sheet	ISO: PET ⚠
83	TB-1926	Bushing	
84	PJUSB0100Z	Imprinter Lock Spring	
85	PJMEC0022Z	Transport Hook	
86	PJBVC0083Z	Transport Spring	
87	PJNW413Y	Spacer	
88	PJNEC0001Z	Transport Screw	
89	PPB747ADF05L	SKEW (R) Board	(RTL) PbF
90	PPB747ADF05K	WAITING SENSOR Board	(RTL) PbF
91	L2FA00000005	SENSOR Unit (Double Feed Detector)	
92	PJHRB0673Z	Double Feed Spacer	ISO: ABS
93	PJMEC0014Z	Double Feed Sensor Plate Upper	
94	PJJRC2473Z	Skew (R) Sensor Cable	
95	PJJRC2452Z	Double Feed (G) Cable	
96	PBDRA0029Z	Free Roller	ISO: POM
97	PJBVC0041Z		
98	PJHEC0212Z-J	Image Sensor Cover (F) for KV-S3065CW Series	ISO: PC ⚠
98	PJHEC0212Z-J1	Image Sensor Cover (F) for KV-S3065Cl Series	ISO: PC ⚠
99	PJMEC0049Z-J	Reference Plate (F) Assy	
100	PJBCC0024Z	Lever	ISO: POM
101	PJQTC0093Z	W/B Arrow Sign	
102	PJUEC0034Z	Conveyor Upper 3	
103	GS0203042D	Gas Spring	
104	PBHMA0106Y	Gas Spring Collar	
105	PJDJC0024Z	Gas Spring Collar	
106	PJUGC0020Z	Gas Spring Shaft	
107	PBUSA0036Y	Spring Plate (1)	
108	PBDFA0102Y	Free Roller Shaft 2	
109	PBQAA0743Z	Label	
110	PJHRC0017Z	Turn Conveyor Inner	
111	PBHRA0150Z	Ink Absolution Felt	
112	PBUSA0037Y	Spring Plate (2)	
113	PBQAA0744Z	Label	
114	AL8	Clamper	
300	RTP3+8(3)BC	Screw	
345	XPJ2C10VW	Pin	
395	XTB3+6FFJ	Screw	
418	XTB4+10FFJ	Screw	
513	XTW3+D4LFJ	Screw	
515	XTW3+D6LFJ	Screw	
528	XTW3+U8FFJ	Screw	
545	XUC3FJ	E-ring	
550	XUC5FJ	E-ring	
553	XUC6FJ	E-ring	
558	XVE3B8FP	Bolt	
575	XWG3H10FJ	Washer	
580	XWG6FJ	Washer	
619	XTW3+J6FJ	Screw	

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14.6. Packing



REPLACEMENT MECHANICAL PARTS LIST (Packing)

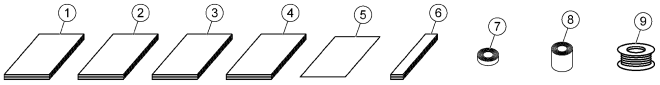
Ref. No.	Part No.	Part Name & Description	Remarks
1	PJPGC0104Z-W	Outer Carton for KV-S3065CW	
1	PJPGC104Z-AW	Outer Carton for KV-S3065CW-A	
1	PJPGC104Z-TW	Outer Carton for KV-S3065CW-T	
1	PJPGC104Z-UW	Outer Carton for KV-S3065CW-U	
1	PJPGC104ZCNW	Outer Carton for KV-S3065CWCN	
1	PJPGC0104Z-L	Outer Carton for KV-S3065CL	
1	PJPGC104Z-AL	Outer Carton for KV-S3065CL-A	
1	PJPGC104Z-TL	Outer Carton for KV-S3065CL-T	
1	PJPGC104Z-UL	Outer Carton for KV-S3065CL-U	
1	PJPGC104ZCNL	Outer Carton for KV-S3065CLCN	
2	HP-601W2-R	Joint	ISO:PP
3	PBPGA0322Y	Bottom Carton	
4	PJPQC0012Z	Bottom Cushion	ISO:PP
4	PJPQC0012Z-J	Bottom Cushion for KV-S3065CW-U / KV-S3065CL-U	ISO:PP
5	PBPPA0022Z	Vinyl Bag	ISO:PE
5	PBPPA0022Z-J	Vinyl Bag for KV-S3065CW-U / KV-S3065CL-U	ISO:PE
6	PBPNA0167Y	Cushion	
7	PJQTC0133Z	installation Guide	
8	PJPQC0011Z	Upper Cushion	
8	PJPQC0011Z-J	Upper Cushion for KV-S3065CW-U / KV-S3065CL-U	
9	PJQMC0131Z	Maintainance Manual for English	
9	PJQMC0132Z	Maintainance Manual for German	
9	PJQMC0133Z	Maintainance Manual for French	
9	PJQMC0134Z	Maintainance Manual for Spanish	
9	PJQMC0135Z	Maintainance Manual for Italian	
9	PJQMC0136Z	Maintainance Manual for Korean	
9	PJQMC0137Z	Maintainance Manual for Russian	
9	PJQMC0138Z	Maintainance Manual for Chinese	
10	PJQXC0026Z	Installation Manual for English	
10	PJQXC0027Z	Installation Manual for German	
10	PJQXC0028Z	Installation Manual for French	
10	PJQXC0029Z	Installation Manual for Spanish	
10	PJQXC0030Z	Installation Manual for Italian	
10	PJQXC0031Z	Installation Manual for Korean	
10	PJQXC0032Z	Installation Manual for Russian	
10	PJQXC0033Z	Installation Manual for Chinese	
11	PBHSA0055Z	Roller Cleaning Paper	
12	PJUUA0001Z	Blower Brush	
13	PBAQA0212Q	CD-ROM	
14	K1HB04CD0003	USB Cable	
15	K2CG3DH00032	Power Cord (120 V) for USA	⚠
15	K2CK3DH00020	Power Cord for AUSTRALLA	⚠
15	K2CG3DH00044	Power Cord for TAIWAN	⚠
15	K2CT3DH00014	Power Cord (240 V) for Type BF	⚠
15	K2CN3DH00003	Power Cord (240 V) for GERMANY	⚠
15	K2CK3DH00014	Power Cord (220 V) Type S for CHINA	⚠

Note:

*1 Certification Mark according to The Commodity Inspection Act in Taiwan

*2 AC cords for China have the certification mark according to REGULATIONS FOR CHINA COMPULSORY PRODUCT CERTIFICATION.

14.7. Tool



REPLACEMENT MECHANICAL PARTS LIST (Tool)

Ref. No.	Part No.	Part Name & Description
1	PBQX9009SZ-J	Test Chart A (A4) (10 Pieces)
2	PJQXC0034Z-J	Shading Sheet (10 Pieces)
3	PBQX9012IZ-J	Adjustment Paper (50 Pieces)
4	PBQX9010ZZ-J	Test Chart A (10 Pieces)
5	PBQX9010SZ-J	Test Chart B (10 Pieces)
6	PJQXC0041Z-J	Focus Chart (5 Pieces)
7	T4E30725-2	Polyester Tape (19 mm)
8	T4E307100	Polyester Tape (100 mm)
9	RMA02M705-08	Eco Solder

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15 REPLACEMENT PARTS LIST

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Note: RTL (Retention time limited)

The marking (RTL) in the Remark column indicates that Retention Time is limited for this for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of Part Name and Description

1. **Resistor**

Example:

ERJ6GEYJ472 4.7k / J / 0.1W (1/10W)

ALLOWANCE	
F	±1%
G	±2%
J	±5%
K	±10%
M	±20%

2. **Capacitor**

Example:

ECUX1H104ZFX 0.1 / Z / 50V

ALLOWANCE	
C	±0.25 pF
D	±0.5 pF
F	±1 pF
J	±5%
K	±10%
L	±15%
M	±20%
P	+100% -0%
Z	+800% -20%

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15.1. CONTROL Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R1000	ERJ3GEYJ103	10K / J / (1/10W)	
R1001	ERJ3GEYJ103	10K / J / (1/10W)	
R1002	ERJ3GEYJ103	10K / J / (1/10W)	
R1003	ERJ3GEYJ103	10K / J / (1/10W)	
R1004	ERJ3GEYJ101	100 / J / (1/10W)	
R1005	ERJ3GEYJ101	100 / J / (1/10W)	
R1006	ERJ3GEYJ101	100 / J / (1/10W)	
R1007	ERJ3GEYJ101	100 / J / (1/10W)	
R1008	ERJ3GEYJ101	100 / J / (1/10W)	
R1009	ERJ3GEYJ103	10K / J / (1/10W)	
R1010	ERJ3GEYJ220	22 / J / (1/10W)	
R1011	ERJ3GEYJ220	22 / J / (1/10W)	
R1012	ERJ3GEYJ220	22 / J / (1/10W)	
R1013	ERJ3GEYJ220	22 / J / (1/10W)	
R1014	ERJ3GEYJ101	100 / J / (1/10W)	
R1015	ERJ3GEYJ220	22 / J / (1/10W)	
R1016	ERJ3GEYJ220	22 / J / (1/10W)	
R1017	ERJ3GEYJ220	22 / J / (1/10W)	
R1018	ERJ3GEYJ220	22 / J / (1/10W)	
R1019	ERJ3GEYJ220	22 / J / (1/10W)	
R1020	ERJ3GEYJ101	100 / J / (1/10W)	
R1021	ERJ3GEYJ220	22 / J / (1/10W)	
R1022	ERJ3GEYJ220	22 / J / (1/10W)	
R1023	ERJ3GEYJ220	22 / J / (1/10W)	
R1024	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1025	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1026	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1027	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1028	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1029	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1030	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1031	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1032	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1033	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1034	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1035	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1036	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1037	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1038	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1039	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1040	ERJ3GEYJ471	470 / J / (1/10W)	
R1041	ERJ3GEYJ471	470 / J / (1/10W)	
R1042	ERJ3GEYJ471	470 / J / (1/10W)	
R1043	ERJ3GEYJ471	470 / J / (1/10W)	
R1044	ERJ3GEY0R00	0-ohm Jumper	
R1045	ERJ3GEY0R00	0-ohm Jumper	
R1047	ERJ3GEY0R00	0-ohm Jumper	
R1048	ERJ3GEY0R00	0-ohm Jumper	
R1050	ERJ3GEY0R00	0-ohm Jumper	
R1051	ERJ3GEY0R00	0-ohm Jumper	
R1053	ERJ3GEYJ470	47 / J / (1/10W)	
R1054	ERJ3GEYJ470	47 / J / (1/10W)	
R1056	ERJ3GEYJ470	47 / J / (1/10W)	
R1057	ERJ3GEYJ470	47 / J / (1/10W)	
R1058	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1059	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1060	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1061	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1062	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1063	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1064	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1065	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1066	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1067	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1068	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1069	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1070	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1071	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1072	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1073	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1074	ERJ3GEYJ471	470 / J / (1/10W)	
R1075	ERJ3GEYJ471	470 / J / (1/10W)	
R1076	ERJ3GEYJ471	470 / J / (1/10W)	
R1077	ERJ3GEYJ471	470 / J / (1/10W)	
R1078	ERJ3GEY0R00	0-ohm Jumper	
R1079	ERJ3GEY0R00	0-ohm Jumper	
R1081	ERJ3GEY0R00	0-ohm Jumper	
R1082	ERJ3GEY0R00	0-ohm Jumper	
R1084	ERJ3GEY0R00	0-ohm Jumper	
R1085	ERJ3GEY0R00	0-ohm Jumper	
R1087	ERJ3GEYJ470	47 / J / (1/10W)	
R1088	ERJ3GEYJ470	47 / J / (1/10W)	
R1090	ERJ3GEYJ470	47 / J / (1/10W)	
R1091	ERJ3GEYJ470	47 / J / (1/10W)	
R1092	ERJ3GEYJ473	47K / J / (1/10W)	
R1093	ERJ3GEYJ473	47K / J / (1/10W)	
R1094	ERJ3GEYJ473	47K / J / (1/10W)	
R1095	ERJ3GEYJ473	47K / J / (1/10W)	
R1096	ERJ3GEYJ473	47K / J / (1/10W)	
R1097	ERJ3GEYJ473	47K / J / (1/10W)	
R1098	ERJ3GEYJ334	330K / J / (1/10W)	
R1099	ERJ3GEYJ334	330K / J / (1/10W)	
R1100	ERJ3GEYJ473	47K / J / (1/10W)	
R1101	ERJ3GEYJ473	47K / J / (1/10W)	
R1102	ERJ3GEYJ473	47K / J / (1/10W)	
R1103	ERJ3GEYJ473	47K / J / (1/10W)	
R1104	ERJ3GEYJ334	330K / J / (1/10W)	
R1105	ERJ3GEYJ334	330K / J / (1/10W)	
R1106	ERJ3GEYJ334	330K / J / (1/10W)	
R1107	ERJ3GEYJ334	330K / J / (1/10W)	
R1108	ERJ3GEYJ473	47K / J / (1/10W)	
R1109	ERJ3GEYJ473	47K / J / (1/10W)	
R1110	ERJ3GEYJ473	47K / J / (1/10W)	
R1111	ERJ3GEYJ473	47K / J / (1/10W)	
R1112	ERJ3GEYJ334	330K / J / (1/10W)	
R1113	ERJ3GEYJ224	220K / J / (1/10W)	
R1114	ERJ3GEYJ334	330K / J / (1/10W)	
R1115	ERJ3GEYJ334	330K / J / (1/10W)	
R1116	ERJ3GEYJ473	47K / J / (1/10W)	
R1117	ERJ3GEYJ473	47K / J / (1/10W)	
R1118	ERJ3GEYJ224	220K / J / (1/10W)	
R1119	ERJ3GEYJ334	330K / J / (1/10W)	
R1120	ERJ3GEYJ334	330K / J / (1/10W)	
R1121	ERJ3GEYJ334	330K / J / (1/10W)	
R1122	ERJ3GEYJ334	330K / J / (1/10W)	
R1123	ERJ3GEYJ334	330K / J / (1/10W)	
R1124	ERJ3GEYJ332	3.3K / J / (1/10W)	
R1125	ERJ3GEYJ332	3.3K / J / (1/10W)	
R1126	ERJ3GEYJ332	3.3K / J / (1/10W)	
R1127	ERJ3GEYJ332	3.3K / J / (1/10W)	
R1128	ERJ3GEYJ332	3.3K / J / (1/10W)	
R1129	ERJ3GEYJ332	3.3K / J / (1/10W)	
R1130	ERJ3GEYJ332	3.3K / J / (1/10W)	
R1131	ERJ3GEYJ332	3.3K / J / (1/10W)	
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R1134	ERJ3GEYJ332	3.3K / J / (1/10W)	
R1135	ERJ3GEYJ332	3.3K / J / (1/10W)	
R1136	ERJ3GEYJ332	3.3K / J / (1/10W)	
R1137	ERJ3GEYJ332	3.3K / J / (1/10W)	
R1138	ERJ3GEYJ332	3.3K / J / (1/10W)	
R1139	ERJ3GEYJ332	3.3K / J / (1/10W)	
R1155	ERJ3GEYJ473	47K / J / (1/10W)	
R1162	ERJ3GEYJ222	2.2K / J / (1/10W)	
R1168	ERJ3GEYJ473	47K / J / (1/10W)	
R1151	ERJ3GEYJ103	10K / J / (1/10W)	
R1152	ERJ3GEYJ103	10K / J / (1/10W)	
R1153	ERJ3GEYJ103	10K / J / (1/10W)	
R1154	ERJ3GEYJ103	10K / J / (1/10W)	
R1156	ERJ3GEYJ102	1K / J / (1/10W)	
R1157	ERJ3GEYJ103	10K / J / (1/10W)	
R1158	ERJ3GEYJ103	10K / J / (1/10W)	
R1163	ERJ3GEY0R00	0-ohm Jumper	

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Ref. No.	Part No.	Part Name & Description	Remarks
R1164	ERJ3GEYJ103	10K / J / (1/10W)	
R1165	ERJ3GEYJ103	10K / J / (1/10W)	
R1166	ERJ3GEYJ103	10K / J / (1/10W)	
R1170	ERJ3GEYJ201	200 / J / (1/10W)	
R1171	ERJ3GEYJ101	100 / J / (1/10W)	
R1172	ERJ3GEYJ103	10K / J / (1/10W)	
R1173	ERJ3GEYJ103	10K / J / (1/10W)	
R1174	ERJ3GEYJ103	10K / J / (1/10W)	
R1175	ERJ3GEYJ103	10K / J / (1/10W)	
R1178	ERJ3GEYJ103	10K / J / (1/10W)	
R1179	ERJ3GEYJ101	100 / J / (1/10W)	
R1181	ERJ3GEYJ103	10K / J / (1/10W)	
R1182	ERJ3GEYJ101	100 / J / (1/10W)	
R1183	ERJ3GEYJ103	10K / J / (1/10W)	
R1184	ERJ3GEYJ103	10K / J / (1/10W)	
R1185	ERJ3GEYJ103	10K / J / (1/10W)	
R1186	ERJ3GEYJ103	10K / J / (1/10W)	
R1187	ERJ3GEYJ103	10K / J / (1/10W)	
R1189	ERJ3GEYJ103	10K / J / (1/10W)	
R1190	ERJ3GEYJ103	10K / J / (1/10W)	
R1191	ERJ3GEYJ103	10K / J / (1/10W)	
R1192	ERJ3GEYJ103	10K / J / (1/10W)	
R1194	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1195	ERJ3GEYJ103	10K / J / (1/10W)	
R1196	ERJ3GEYJ272	2.7K / J / (1/10W)	
R1197	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1198	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1199	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1200	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1201	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1202	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1203	ERJ3GEYJ101	100 / J / (1/10W)	
R1204	ERJ3GEYJ101	100 / J / (1/10W)	
R1206	ERJ3GEYJ223	22K / J / (1/10W)	
R1207	ERJ3GEYJ222	2.2K / J / (1/10W)	
R1208	D4FBR300A005	Resistor	
R1209	D4FB1R100008	Resistor	
R1210	D4FB1R100008	Resistor	
R1211	ERJ3GEYJ101	100 / J / (1/10W)	
R1212	ERJ3GEYJ101	100 / J / (1/10W)	
R1213	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1214	ERJ3GEYJ472	4.7K / J / (1/10W)	
R1215	ERJ3GEYJ102	1K / J / (1/10W)	
R1216	ERJ3GEYJ222	2.2K / J / (1/10W)	
Z1001	EXBV8V220JV	Resistor Array	
Z1002	EXBV8V220JV	Resistor Array	
Z1003	EXBV8V220JV	Resistor Array	
Z1004	EXBV8V103JV	Resistor Array	
Z1005	EXBV8V103JV	Resistor Array	
Z1006	EXBV8V220JV	Resistor Array	
Z1007	EXBV8V220JV	Resistor Array	
Z1008	EXBV8V220JV	Resistor Array	
Z1009	EXBV8V220JV	Resistor Array	
Z1010	EXBV8V103JV	Resistor Array	
Z1011	EXBV8V103JV	Resistor Array	
Z1012	EXBV8V103JV	Resistor Array	
Z1013	EXBV8V220JV	Resistor Array	
Z1014	EXBV8V220JV	Resistor Array	
Z1015	EXBV8V220JV	Resistor Array	
Z1016	EXBV8V220JV	Resistor Array	
Z1017	EXBV8V220JV	Resistor Array	
Z1018	EXBV8V220JV	Resistor Array	
Z1019	EXBV8V470JV	Resistor Array	
Z1020	EXBV8V470JV	Resistor Array	
Z1021	EXBV8V470JV	Resistor Array	
Z1022	EXBV8V470JV	Resistor Array	
Z1023	EXBV8V470JV	Resistor Array	
Z1024	EXBV8V470JV	Resistor Array	
Z1025	EXBV8V470JV	Resistor Array	
Z1026	EXBV8V470JV	Resistor Array	
Z1027	EXBV8V222JV	Resistor Array	
Z1028	EXBV8V222JV	Resistor Array	
Z1029	EXBV8V103JV	Resistor Array	

Ref. No.	Part No.	Part Name & Description	Remarks
Z1030	EXBV8V103JV	Resistor Array	
Z1031	EXBV8V101JV	Resistor Array	
Z1032	EXBV8V101JV	Resistor Array	
Z1033	EXBV8V101JV	Resistor Array	
Z1034	EXBV8V101JV	Resistor Array	
Z1035	EXBV8V101JV	Resistor Array	
Z1036	EXBV8V101JV	Resistor Array	
Z1037	EXBV8V220JV	Resistor Array	
Z1038	EXBV8V101JV	Resistor Array	
Z1039	EXBV8V101JV	Resistor Array	
Z1040	EXBV8V103JV	Resistor Array	
Z1041	EXBV8V103JV	Resistor Array	
Z1042	EXBV8V103JV	Resistor Array	
Z1043	EXBV8V103JV	Resistor Array	
Z1044	EXBV8V103JV	Resistor Array	
Z1045	EXBV8V220JV	Resistor Array	
Z1046	EXBV8V220JV	Resistor Array	
Z1047	EXBV8V220JV	Resistor Array	
Z1048	EXBV8V220JV	Resistor Array	
Z1049	EXBV8V101JV	Resistor Array	
Z1050	EXBV8V101JV	Resistor Array	
Z1051	EXBV8V101JV	Resistor Array	
Z1052	EXBV8V103JV	Resistor Array	
Z1053	EXBV8V103JV	Resistor Array	
Z1054	EXBV8V103JV	Resistor Array	
Z1055	EXBV8V103JV	Resistor Array	
Z1056	EXBV8V103JV	Resistor Array	
Z1057	EXBV8V103JV	Resistor Array	
Z1058	EXBV8V103JV	Resistor Array	
Z1059	EXBV8V103JV	Resistor Array	
Z1060	EXBV8V103JV	Resistor Array	
Z1061	EXBV8V101JV	Resistor Array	
Z1062	EXBV8V103JV	Resistor Array	
Z1063	EXBV8V103JV	Resistor Array	
Z1064	EXBV8V103JV	Resistor Array	
Z1065	EXBV8V103JV	Resistor Array	
Z1066	EXBV8V103JV	Resistor Array	
Z1067	EXBV8V103JV	Resistor Array	
Z1068	EXBV8V220JV	Resistor Array	
Z1069	EXBV8V220JV	Resistor Array	
Z1070	EXBV8V220JV	Resistor Array	
Z1071	EXBV8V220JV	Resistor Array	
Z1072	EXBV8V220JV	Resistor Array	
Z1073	EXBV8V220JV	Resistor Array	
Z1074	EXBV8V101JV	Resistor Array	
Z1075	EXBV8V101JV	Resistor Array	
Z1076	EXBV8V101JV	Resistor Array	
Z1077	EXBV8V101JV	Resistor Array	
Z1078	EXBV8V101JV	Resistor Array	
Z1079	EXBV8V101JV	Resistor Array	
Z1080	EXBV8V101JV	Resistor Array	
Z1081	EXBV8V101JV	Resistor Array	
Z1082	EXBV8V103JV	Resistor Array	
Z1083	EXBV8V103JV	Resistor Array	
Z1084	EXBV8V103JV	Resistor Array	
Z1085	EXBV8V101JV	Resistor Array	
Z1086	EXBV8V101JV	Resistor Array	
Z1087	EXBV8V101JV	Resistor Array	
Z1088	EXBV8V101JV	Resistor Array	
Z1089	EXBV8V103JV	Resistor Array	
Z1090	EXBV8V103JV	Resistor Array	
Z1091	EXBV8V103JV	Resistor Array	
		CAPACITORS	
C1000	F2G1A1010013	100 / M / 10V	
C1001	ECJ1VF1E104Z	0.1 / Z / 25V	
C1002	ECUX1H102KBV	1000P / K / 50V	
C1003	ECUX1H102KBV	1000P / K / 50V	
C1004	ECJ1VF1E104Z	0.1 / Z / 25V	
C1005	F2G1A1010013	100 / M / 10V	
C1006	ECJ1VF1E104Z	0.1 / Z / 25V	
C1007	ECUX1H102KBV	1000P / K / 50V	
C1008	ECUX1H102KBV	1000P / K / 50V	
C1009	ECJ1VF1E104Z	0.1 / Z / 25V	

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Ref. No.	Part No.	Part Name & Description	Remarks
C1010	F2G0G2210002	220 / M / 4V	
C1011	ECUX1H102KBV	1000P / K / 50V	
C1012	ECJ1VF1E104Z	0.1 / Z / 25V	
C1013	F2G0G2210002	220 / M / 4V	
C1014	ECUX1H102KBV	1000P / K / 50V	
C1015	ECJ1VF1E104Z	0.1 / Z / 25V	
C1016	ECUX1H102KBV	1000P / K / 50V	
C1017	ECJ1VF1E104Z	0.1 / Z / 25V	
C1018	ECUX1H102KBV	1000P / K / 50V	
C1019	ECJ1VF1E104Z	0.1 / Z / 25V	
C1020	ECJ1VF1E104Z	0.1 / Z / 25V	
C1021	ECJ1VF1E104Z	0.1 / Z / 25V	
C1022	ECJ1VF1E104Z	0.1 / Z / 25V	
C1023	ECUX1H102KBV	1000P / K / 50V	
C1024	ECJ1VF1E104Z	0.1 / Z / 25V	
C1025	ECUX1H102KBV	1000P / K / 50V	
C1026	ECUX1H102KBV	1000P / K / 50V	
C1027	ECUX1H102KBV	1000P / K / 50V	
C1028	ECUX1H102KBV	1000P / K / 50V	
C1030	ECJ1VF1E104Z	0.1 / Z / 25V	
C1031	ECUX1H102KBV	1000P / K / 50V	
C1033	ECJ1VF1E104Z	0.1 / Z / 25V	
C1038	ECUX1H102KBV	1000P / K / 50V	
C1039	ECUX1H470JCV	47P / J / 50V	
C1040	ECUX1H470JCV	47P / J / 50V	
C1041	ECJ1VF1E104Z	0.1 / Z / 25V	
C1042	ECUX1H470JCV	47P / J / 50V	
C1043	ECUX1H470JCV	47P / J / 50V	
C1044	ECUX1H102KBV	1000P / K / 50V	
C1046	ECUX1H102KBV	1000P / K / 50V	
C1047	ECUX1H470JCV	47P / J / 50V	
C1048	ECJ1VF1E104Z	0.1 / Z / 25V	
C1049	ECUX1H470JCV	47P / J / 50V	
C1050	ECJ1VF1E104Z	0.1 / Z / 25V	
C1052	F2G1C1010015	100P / M / 16V	
C1053	ECUX1H470JCV	47P / J / 50V	
C1054	ECUX1H102KBV	1000P / K / 50V	
C1055	ECUX1H470JCV	47P / J / 50V	
C1056	ECUX1H470JCV	47P / J / 50V	
C1057	F2G1A1010013	100 / M / 10V	
C1058	ECUX1H470JCV	47P / J / 50V	
C1059	ECJ1VF1E104Z	0.1 / Z / 25V	
C1060	ECUX1H470JCV	47P / J / 50V	
C1061	ECUX1H470JCV	47P / J / 50V	
C1062	ECUX1H102KBV	1000P / K / 50V	
C1063	F2G1A1010013	100 / M / 10V	
C1064	ECJ1VF1E104Z	0.1 / Z / 25V	
C1065	F2G1C1010015	100P / M / 16V	
C1066	ECUX1H102KBV	1000P / K / 50V	
C1067	ECJ1VF1E104Z	0.1 / Z / 25V	
C1068	ECJ1VF1E104Z	0.1 / Z / 25V	
C1069	ECJ1VF1E104Z	0.1 / Z / 25V	
C1070	ECJ1VF1E104Z	0.1 / Z / 25V	
C1071	ECJ1VF1E104Z	0.1 / Z / 25V	
C1072	ECJ1VF1E104Z	0.1 / Z / 25V	
C1073	F2G1C1000014	100 / M / 16V	
C1074	ECJ1VF1E104Z	0.1 / Z / 25V	
C1075	ECJ1VF1E104Z	0.1 / Z / 25V	
C1076	ECJ1VF1E104Z	0.1 / Z / 25V	
C1077	ECJ1VF1E104Z	0.1 / Z / 25V	
C1078	ECJ1VF1E104Z	0.1 / Z / 25V	
C1079	ECJ1VF1E104Z	0.1 / Z / 25V	
C1080	F2G1C1000014	100 / M / 16V	
C1081	ECJ1VF1E104Z	0.1 / Z / 25V	
C1082	F2G1C1000014	100 / M / 16V	
C1083	ECJ1VF1E104Z	0.1 / Z / 25V	
C1084	F2G1C1000014	100 / M / 16V	
C1085	ECJ1VF1E104Z	0.1 / Z / 25V	
C1086	ECJ1VF1E104Z	0.1 / Z / 25V	
C1087	ECJ1VF1E104Z	0.1 / Z / 25V	
C1088	ECJ1VF1E104Z	0.1 / Z / 25V	
C1089	ECJ1VF1E104Z	0.1 / Z / 25V	
C1090	ECJ1VF1E104Z	0.1 / Z / 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1091	F2G1C1000014	100 / M / 16V	
C1092	F2G1C1000014	100 / M / 16V	
C1093	ECJ1VF1E104Z	0.1 / Z / 25V	
C1094	ECJ1VF1E104Z	0.1 / Z / 25V	
C1095	ECJ1VF1E104Z	0.1 / Z / 25V	
C1096	ECJ1VF1E104Z	0.1 / Z / 25V	
C1097	ECJ1VF1E104Z	0.1 / Z / 25V	
C1098	F2G1C1000014	100 / M / 16V	
C1099	ECJ1VF1E104Z	0.1 / Z / 25V	
C1100	ECJ1VF1E104Z	0.1 / Z / 25V	
C1101	F2G1C1000014	100 / M / 16V	
C1102	ECJ1VF1E104Z	0.1 / Z / 25V	
C1103	F2G1C1000014	100 / M / 16V	
C1104	ECJ1VF1E104Z	0.1 / Z / 25V	
C1105	ECJ1VF1E104Z	0.1 / Z / 25V	
C1106	ECJ1VF1E104Z	0.1 / Z / 25V	
C1107	ECJ1VF1E104Z	0.1 / Z / 25V	
C1108	ECJ1VF1E104Z	0.1 / Z / 25V	
C1109	F2G1C1000014	100 / M / 16V	
C1110	ECJ1VF1E104Z	0.1 / Z / 25V	
C1111	ECJ1VF1E104Z	0.1 / Z / 25V	
C1112	ECJ1VF1E104Z	0.1 / Z / 25V	
C1113	F2G1C1000014	100 / M / 16V	
C1114	ECJ1VF1E104Z	0.1 / Z / 25V	
C1115	ECJ1VF1E104Z	0.1 / Z / 25V	
C1116	ECJ1VF1E104Z	0.1 / Z / 25V	
C1117	ECJ1VF1E104Z	0.1 / Z / 25V	
C1118	F2G1C1000014	100 / M / 16V	
C1119	ECJ1VF1E104Z	0.1 / Z / 25V	
C1120	F2G1C1000014	100 / M / 16V	
C1121	ECJ1VF1E104Z	0.1 / Z / 25V	
C1122	ECJ1VF1E104Z	0.1 / Z / 25V	
C1123	ECJ1VF1E104Z	0.1 / Z / 25V	
C1124	ECJ1VF1E104Z	0.1 / Z / 25V	
C1125	F2G1C1000014	100 / M / 16V	
C1126	ECJ1VF1E104Z	0.1 / Z / 25V	
C1127	ECJ1VF1E104Z	0.1 / Z / 25V	
C1128	ECJ1VF1E104Z	0.1 / Z / 25V	
C1129	F2G1C1000014	100 / M / 16V	
C1130	F2G1C1000014	100 / M / 16V	
C1131	ECJ1VF1E104Z	0.1 / Z / 25V	
C1132	ECUX1H102KBV	1000P / K / 50V	
C1133	ECUX1H470JCV	47P / J / 50V	
C1134	ECUX1H102KBV	1000P / K / 50V	
C1135	ECJ1VF1E104Z	0.1 / Z / 25V	
C1136	ECJ1VF1E104Z	0.1 / Z / 25V	
C1137	ECJ1VF1E104Z	0.1 / Z / 25V	
C1138	ECJ1VF1E104Z	0.1 / Z / 25V	
C1139	ECJ1VF1E104Z	0.1 / Z / 25V	
C1140	ECUX1H470JCV	47P / J / 50V	
C1141	F2G0J4700012	47 / M / 6.3V	
C1142	ECJ1VF1E104Z	0.1 / Z / 25V	
C1143	ECJ1VF1E104Z	0.1 / Z / 25V	
C1144	ECJ1VF1E104Z	0.1 / Z / 25V	
C1145	ECJ1VF1E104Z	0.1 / Z / 25V	
C1146	ECJ1VF1E104Z	0.1 / Z / 25V	
C1147	ECJ1VF1E104Z	0.1 / Z / 25V	
C1148	F2G0J4700012	47 / M / 6.3V	
C1149	ECJ1VF1E104Z	0.1 / Z / 25V	
C1150	ECJ1VF1E104Z	0.1 / Z / 25V	
C1151	ECJ1VF1E104Z	0.1 / Z / 25V	
C1152	ECJ1VF1E104Z	0.1 / Z / 25V	
C1153	ECJ1VF1E104Z	0.1 / Z / 25V	
C1154	ECJ1VF1E104Z	0.1 / Z / 25V	
C1155	F2G1C1000014	100 / M / 16V	
C1156	ECJ1VF1E104Z	0.1 / Z / 25V	
C1157	ECJ1VF1E104Z	0.1 / Z / 25V	
C1158	ECJ1VF1E104Z	0.1 / Z / 25V	
C1159	ECJ1VF1E104Z	0.1 / Z / 25V	
C1160	ECJ1VF1E104Z	0.1 / Z / 25V	
C1161	ECJ1VF1E104Z	0.1 / Z / 25V	
C1162	ECJ1VF1E104Z	0.1 / Z / 25V	
C1163	ECJ1VF1E104Z	0.1 / Z / 25V	

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Ref. No.	Part No.	Part Name & Description	Remarks
C1164	F2G1C1000014	100 / M / 16V	
C1165	F2G1C1000014	100 / M / 16V	
C1166	ECJ1VF1E104Z	0.1 / Z / 25V	
C1167	F2G1C1000014	100 / M / 16V	
C1168	ECJ1VF1E104Z	0.1 / Z / 25V	
C1169	ECJ1VF1E104Z	0.1 / Z / 25V	
C1170	ECJ1VF1E104Z	0.1 / Z / 25V	
C1171	ECJ1VF1E104Z	0.1 / Z / 25V	
C1172	ECJ1VF1E104Z	0.1 / Z / 25V	
C1173	F2G1C1000014	100 / M / 16V	
C1174	ECJ1VF1E104Z	0.1 / Z / 25V	
C1175	F2G1C1000014	100 / M / 16V	
C1176	ECJ1VF1E104Z	0.1 / Z / 25V	
C1177	ECJ1VF1E104Z	0.1 / Z / 25V	
C1178	ECJ1VF1E104Z	0.1 / Z / 25V	
C1179	ECJ1VF1E104Z	0.1 / Z / 25V	
C1180	ECJ1VF1E104Z	0.1 / Z / 25V	
C1181	ECJ1VF1E104Z	0.1 / Z / 25V	
C1182	F2G1C1000014	100 / M / 16V	
C1183	ECJ1VF1E104Z	0.1 / Z / 25V	
C1184	ECJ1VF1E104Z	0.1 / Z / 25V	
C1185	F2G1C1000014	100 / M / 16V	
C1186	ECJ1VF1E104Z	0.1 / Z / 25V	
C1187	ECJ1VF1E104Z	0.1 / Z / 25V	
C1188	F2G1C1000014	100 / M / 16V	
C1189	ECJ1VF1E104Z	0.1 / Z / 25V	
C1190	ECJ1VF1E104Z	0.1 / Z / 25V	
C1191	ECJ1VF1E104Z	0.1 / Z / 25V	
C1192	ECJ1VF1E104Z	0.1 / Z / 25V	
C1193	ECJ1VF1E104Z	0.1 / Z / 25V	
C1194	F2G1C1000014	100 / M / 16V	
C1195	ECJ1VF1E104Z	0.1 / Z / 25V	
C1196	ECJ1VF1E104Z	0.1 / Z / 25V	
C1197	F2G1C1000014	100 / M / 16V	
C1198	ECJ1VF1E104Z	0.1 / Z / 25V	
C1199	ECJ1VF1E104Z	0.1 / Z / 25V	
C1200	ECJ1VF1E104Z	0.1 / Z / 25V	
C1201	ECJ1VF1E104Z	0.1 / Z / 25V	
C1202	F2G1C1000014	100 / M / 16V	
C1203	ECJ1VF1E104Z	0.1 / Z / 25V	
C1204	F2G1C1000014	100 / M / 16V	
C1205	ECJ1VF1E104Z	0.1 / Z / 25V	
C1206	ECJ1VF1E104Z	0.1 / Z / 25V	
C1207	ECJ1VF1E104Z	0.1 / Z / 25V	
C1208	ECJ1VF1E104Z	0.1 / Z / 25V	
C1209	F2G1C1000014	100 / M / 16V	
C1210	ECJ1VF1E104Z	0.1 / Z / 25V	
C1211	ECJ1VF1E104Z	0.1 / Z / 25V	
C1212	ECJ1VF1E104Z	0.1 / Z / 25V	
C1213	F2G1C1000014	100 / M / 16V	
C1214	F2G1C1000014	100 / M / 16V	
C1215	ECJ1VF1E104Z	0.1 / Z / 25V	
C1216	ECUX1H102KBV	1000P / K / 50V	
C1217	ECUX1H470JCV	47P / J / 50V	
C1218	ECUX1H102KBV	1000P / K / 50V	
C1219	ECJ1VF1E104Z	0.1 / Z / 25V	
C1220	ECJ1VF1E104Z	0.1 / Z / 25V	
C1221	ECJ1VF1E104Z	0.1 / Z / 25V	
C1222	ECJ1VF1E104Z	0.1 / Z / 25V	
C1223	ECJ1VF1E104Z	0.1 / Z / 25V	
C1224	ECUX1H470JCV	47P / J / 50V	
C1225	F2G0J4700012	47 / M / 6.3V	
C1226	ECJ1VF1E104Z	0.1 / Z / 25V	
C1227	ECJ1VF1E104Z	0.1 / Z / 25V	
C1228	ECJ1VF1E104Z	0.1 / Z / 25V	
C1229	ECJ1VF1E104Z	0.1 / Z / 25V	
C1230	ECJ1VF1E104Z	0.1 / Z / 25V	
C1231	ECJ1VF1E104Z	0.1 / Z / 25V	
C1232	F2G0J4700012	47 / M / 6.3V	
C1233	ECJ1VF1E104Z	0.1 / Z / 25V	
C1234	ECJ1VF1E104Z	0.1 / Z / 25V	
C1235	ECJ1VF1E104Z	0.1 / Z / 25V	
C1236	ECUX1H102KBV	1000P / K / 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1237	ECJ1VF1E104Z	0.1 / Z / 25V	
C1238	ECUX1H102KBV	1000P / K / 50V	
C1239	ECUX1H102KBV	1000P / K / 50V	
C1240	ECJ1VF1E104Z	0.1 / Z / 25V	
C1241	ECJ1VF1E104Z	0.1 / Z / 25V	
C1242	ECUX1H102KBV	1000P / K / 50V	
C1243	ECJ1VF1E104Z	0.1 / Z / 25V	
C1244	ECUX1H102KBV	1000P / K / 50V	
C1245	ECJ1VF1E104Z	0.1 / Z / 25V	
C1246	ECUX1H102KBV	1000P / K / 50V	
C1247	ECJ1VF1E104Z	0.1 / Z / 25V	
C1256	ECJ1VF1E104Z	0.1 / Z / 25V	
C1258	ECJ1VF1E104Z	0.1 / Z / 25V	
C1259	F2G1C1000014	100 / M / 16V	
C1260	ECJ1VF1E104Z	0.1 / Z / 25V	
C1262	ECJ1VF1E104Z	0.1 / Z / 25V	
C1263	F2G1C1000014	100 / M / 16V	
C1264	ECJ1VF1E104Z	0.1 / Z / 25V	
C1265	ECJ1VF1E104Z	0.1 / Z / 25V	
C1267	ECUX1H470JCV	47P / J / 50V	
C1270	ECUX1H470JCV	47P / J / 50V	
C1272	ECUX1H102KBV	1000P / K / 50V	
C1273	ECJ1VF1E104Z	0.1 / Z / 25V	
C1275	ECJ1VF1E104Z	0.1 / Z / 25V	
C1276	ECUX1H102KBV	1000P / K / 50V	
C1277	ECJ1VF1E104Z	0.1 / Z / 25V	
C1278	F2G0J4700012	47 / M / 6.3V	
C1279	ECJ1VF1E104Z	0.1 / Z / 25V	
C1280	ECJ1VF1E104Z	0.1 / Z / 25V	
C1281	ECUX1H102KBV	1000P / K / 50V	
C1282	ECUX1H102KBV	1000P / K / 50V	
C1283	ECJ1VF1E104Z	0.1 / Z / 25V	
C1284	ECUX1H102KBV	1000P / K / 50V	
C1285	ECJ1VF1E104Z	0.1 / Z / 25V	
C1286	ECUX1H102KBV	1000P / K / 50V	
C1287	ECJ1VF1E104Z	0.1 / Z / 25V	
C1288	ECJ1VF1E104Z	0.1 / Z / 25V	
C1289	ECUX1H102KBV	1000P / K / 50V	
C1290	ECJ1VF1E104Z	0.1 / Z / 25V	
C1291	ECUX1H102KBV	1000P / K / 50V	
C1293	ECUX1H102KBV	1000P / K / 50V	
C1294	ECJ1VF1E104Z	0.1 / Z / 25V	
C1295	ECUX1H102KBV	1000P / K / 50V	
C1296	ECJ1VF1E104Z	0.1 / Z / 25V	
C1297	ECUX1H102KBV	1000P / K / 50V	
C1298	ECJ1VF1E104Z	0.1 / Z / 25V	
C1299	ECJ1VF1E104Z	0.1 / Z / 25V	
C1300	ECJ1VF1E104Z	0.1 / Z / 25V	
C1301	ECJ1VF1E104Z	0.1 / Z / 25V	
C1302	ECUX1H102KBV	1000P / K / 50V	
C1303	ECUX1H102KBV	1000P / K / 50V	
C1304	ECJ1VF1E104Z	0.1 / Z / 25V	
C1305	ECJ1VF1E104Z	0.1 / Z / 25V	
C1306	ECUX1H102KBV	1000P / K / 50V	
C1307	ECJ1VF1E104Z	0.1 / Z / 25V	
C1308	ECJ1VF1E104Z	0.1 / Z / 25V	
C1310	ECJ1VF1E104Z	0.1 / Z / 25V	
C1312	ECJ1VF1E104Z	0.1 / Z / 25V	
C1313	ECUX1H102KBV	1000P / K / 50V	
C1314	ECJ1VF1E104Z	0.1 / Z / 25V	
C1315	ECJ1VF1E104Z	0.1 / Z / 25V	
C1316	ECJ1VF1E104Z	0.1 / Z / 25V	
C1317	ECUX1H102KBV	1000P / K / 50V	
C1318	ECUX1H102KBV	1000P / K / 50V	
C1319	ECJ1VF1E104Z	0.1 / Z / 25V	
C1320	ECUX1H102KBV	1000P / K / 50V	
C1321	ECUX1H102KBV	1000P / K / 50V	
C1322	ECUX1H102KBV	1000P / K / 50V	
C1323	ECJ1VF1E104Z	0.1 / Z / 25V	
C1325	ECUX1H102KBV	1000P / K / 50V	
C1326	ECJ1VF1E104Z	0.1 / Z / 25V	
C1327	ECJ1VF1E104Z	0.1 / Z / 25V	
C1328	ECJ1VF1E104Z	0.1 / Z / 25V	

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Ref. No.	Part No.	Part Name & Description	Remarks
C1329	ECJ1VF1E104Z	0.1 / Z / 25V	
C1330	ECJ1VF1E104Z	0.1 / Z / 25V	
C1331	ECUX1H102KBV	1000P / K / 50V	
C1332	ECUX1H102KBV	1000P / K / 50V	
C1333	ECJ1VF1E104Z	0.1 / Z / 25V	
C1334	ECJ1VF1E104Z	0.1 / Z / 25V	
C1335	ECJ1VF1E104Z	0.1 / Z / 25V	
C1336	ECJ1VF1E104Z	0.1 / Z / 25V	
C1368	ECUX1H102KBV	1000P / K / 50V	
C1369	ECUX1H102KBV	1000P / K / 50V	
C1370	ECJ1VF1E104Z	0.1 / Z / 25V	
C1371	ECJ1VF1E104Z	0.1 / Z / 25V	
C1372	F2G0J4700012	47 / M / 6.3V	
C1373	F2G0J4700012	47 / M / 6.3V	
C1374	ECUX1H102KBV	1000P / K / 50V	
C1375	ECJ1VF1E104Z	0.1 / Z / 25V	
C1376	ECUX1H102KBV	1000P / K / 50V	
C1377	F2G0G2210002	220 / M / 4V	
C1378	ECJ1VF1E104Z	0.1 / Z / 25V	
C1379	ECJ1VF1E104Z	0.1 / Z / 25V	
C1380	ECJ1VF1E104Z	0.1 / Z / 25V	
C1381	F2G1A1010013	100 / M / 10V	
C1382	ECUX1H102KBV	1000P / K / 50V	
C1383	ECJ1VF1E104Z	0.1 / Z / 25V	
C1384	ECJ1VF1H104Z	0.1 / Z / 50V	
C1385	F2G1V4700008	47 / M / 35V	
C1388	ECJ1VF1E104Z	0.1 / Z / 25V	
C1389	ECUX1H102KBV	1000P / K / 50V	
C1390	ECUX1H102KBV	1000P / K / 50V	
C1391	F2G1A1010013	100 / M / 10V	
C1392	ECJ1VF1E104Z	0.1 / Z / 25V	
C1393	ECUX1H102KBV	1000P / K / 50V	
C1394	ECJ1VF1E104Z	0.1 / Z / 25V	
C1395	ECJ1VF1E104Z	0.1 / Z / 25V	
C1396	ECJ1VF1E104Z	0.1 / Z / 25V	
C1397	ECJ1VF1E104Z	0.1 / Z / 25V	
C1398	ECJ1VF1E104Z	0.1 / Z / 25V	
C1399	ECJ1VF1E104Z	0.1 / Z / 25V	
C1400	ECUX1H102KBV	1000P / K / 50V	
C1401	ECUX1H102KBV	1000P / K / 50V	
C1402	ECUX1H102KBV	1000P / K / 50V	
C1403	F2G0G2210002	220 / M / 4V	
C1404	F2G0G2210002	220 / M / 4V	
C1405	F2G1A1010013	100 / M / 10V	
C1406	ECJ1VF1E104Z	0.1 / Z / 25V	
C1407	ECJ1VF1E104Z	0.1 / Z / 25V	
C1408	F2G1E1010012	100P / M / 25V	
C1409	F2G1E1010012	100P / M / 25V	
C1410	ECUX1H102KBV	1000P / K / 50V	
C1411	ECUX1H102KBV	1000P / K / 50V	
C1412	ECJ1VF1E104Z	0.1 / Z / 25V	
C1413	ECJ1VF1E104Z	0.1 / Z / 25V	
C1414	F2G1C1010015	100 / M / 16V	
C1415	F2G1C1010015	100 / M / 16V	
C1416	ECUX1H102KBV	1000P / K / 50V	
C1417	ECUX1H102KBV	1000P / K / 50V	
C1418	ECJ1VF1E104Z	0.1 / Z / 25V	
C1419	ECUX1H102KBV	1000P / K / 50V	
C1420	ECJ1VF1H104Z	0.1 / Z / 50V	
C1422	ECJ1VF1E104Z	0.1 / Z / 25V	
C1423	ECUX1H102KBV	1000P / K / 50V	
C1424	F2G1V4700008	47 / M / 35V	
C1426	ECJ1VF1E104Z	0.1 / Z / 25V	
C1427	F2G1V4700008	47 / M / 35V	
C1430	ECUX1H102KBV	1000P / K / 50V	
C1431	ECJ1VF1E104Z	0.1 / Z / 25V	
C1433	ECUX1H102KBV	1000P / K / 50V	
C1434	ECUX1H102KBV	1000P / K / 50V	
C1435	ECJ1VF1H104Z	0.1 / Z / 50V	
C1436	ECUX1H102KBV	1000P / K / 50V	
C1437	ECUX1H102KBV	1000P / K / 50V	
C1438	ECUX1H102KBV	1000P / K / 50V	
C1439	ECUX1H102KBV	1000P / K / 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1440	ECJ1VB1C105K	1 / K / 16V	
C1441	ECJ1VB1A474K	0.47 / K / 10V	
C1442	ECJ1VB1A474K	0.47 / K / 10V	
		COILS	
L1000	J0JCC0000059	Inductor Coil	
L1001	J0JCC0000059	Inductor Coil	
L1002	J0JCC0000059	Inductor Coil	
L1003	J0JCC0000059	Inductor Coil	
L1004	J0JCC0000059	Inductor Coil	
L1005	J0JCC0000059	Inductor Coil	
L1006	J0JCC0000059	Inductor Coil	
L1007	J0JCC0000059	Inductor Coil	
L1008	G1C220KA0057	Coil	
L1009	G1C220KA0057	Coil	
L1010	J0JCC0000059	Inductor Coil	
L1011	J0JCC0000059	Inductor Coil	
L1012	G1C220KA0057	Coil	
L1013	G1C220KA0057	Coil	
L1014	J0JCC0000059	Inductor Coil	
L1015	J0JCC0000059	Inductor Coil	
L1016	G1C220KA0057	Coil	
L1017	J0JCC0000059	Inductor Coil	
L1018	J0JCC0000059	Inductor Coil	
L1019	J0JCC0000059	Inductor Coil	
L1020	J0JCC0000059	Inductor Coil	
L1021	J0JCC0000059	Inductor Coil	
L1022	J0JCC0000059	Inductor Coil	
L1023	J0JCC0000059	Inductor Coil	
L1024	J0JCC0000059	Inductor Coil	
L1025	J0JCC0000059	Inductor Coil	
		DIODES	
D1003	B0JCAE000001	Diode	
D1004	B0JCAE000001	Diode	
		TRANSISTORS	
Q1000	UNR221100L	Transistor	
Q1001	UN2111	Transistor	
Q1002	B1GBCFLL0002	Transistor	
Q1003	B1DHCB000028	Transistor	
Q1004	UNR221100L	Transistor	
Q1005	UNR221100L	Transistor	
Q1006	UNR221100L	Transistor	
Q1007	UNR221100L	Transistor	
		ICs	
IC1000	C0CBABG00019	IC	
IC1001	C0CBABG00019	IC	
IC1002	C0JBAA000321	IC	
IC1003	C0JBAZ001411	IC CMOS Logic	
IC1004	C0JBAZ001411	IC CMOS Logic	
IC1005	C0JBAZ001411	IC CMOS Logic	
IC1006	C0JBAZ002120	IC CMOS Logic	
IC1007	C0ZBZ0000834	IC	
IC1008	C0JBAZ002120	IC CMOS Logic	
IC1009	C0ZBZ0000834	IC	
IC1010	C0ZBZ0000835	IC	
IC1011	C0ZBZ0000835	IC	
IC1012	C0ZBZ0000835	IC	
IC1013	C0ZBZ0000835	IC	
IC1014	C0ABCA000038	IC	
IC1015	C0ABCA000038	IC	
IC1016	C0BBCA000045	IC	
IC1017	C0BBCA000045	IC	
IC1018	C0FBBD000116	IC	
IC1019	C0FBBD000116	IC	
IC1020	C0EBE0000139	IC	
IC1021	C0EBH0000227	IC Reset	
IC1023	C3EBEG000059	IC EEPROM	
IC1024	C2CBYK000003	IC	
IC1025	PJVRX01S3065	IC FLASH	
IC1026	C3BBHG000091	IC SRAM	
IC1027	C0JBAA000279	IC	
IC1028	C0JBAZ001411	IC CMOS Logic	
IC1029	C0JBAN000168	IC	
IC1030	C0JBAN000168	IC	

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Ref. No.	Part No.	Part Name & Description	Remarks
IC1031	C0JBAN000168	IC	
IC1032	C0JBAN000168	IC	
IC1033	C0JBAE000277	IC	
IC1034	C0JBAZ001411	IC CMOS Logic	
IC1035	C0JBAZ001411	IC CMOS Logic	
IC1036	C0JBAZ001411	IC CMOS Logic	
IC1037	C0JBAF000531	IC CMOS Logic	
IC1038	C0JBAF000531	IC CMOS Logic	
IC1039	C0JBAZ001936	IC CMOS Logic	
IC1040	C0JBAZ001411	IC CMOS Logic	
IC1041	C0JBAZ001936	IC CMOS Logic	
IC1042	C0JBAZ001411	IC CMOS Logic	
IC1043	C0CBAKE00009	IC Regulator	
IC1044	C0CBAKE00009	IC Regulator	
		OTHERS	
CN1000	K1KBE0BA0007	Connector	
CN1002	K1KA16A00195	Connector	
CN1003	K1KA32A00049	Connector	
CN1004	K1KA22AA0039	Connector	
CN1005	K1KA28A00031	Connector	
CN1006	K1KA06A00408	Connector	
CN1007	K1KA34A00097	Connector	
CN1008	K1KA18A00090	Connector	
CN1009	K1KA24A00094	Connector	
CN1010	K1KA13A00127	Connector	
CN1011	K1KA08A00446	Connector	
CN1012	K1KA34A00105	Connector	
CN1013	K1KA20A00299	Connector	
CN1014	K1KA12A00324	Connector	
SP1	K1NC02Z00009	Connector	
X1000	H2D165500002	Oscillator	

15.2. INTERFACE Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R2000	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2001	ERJ3GEYJ100	10 / J / (1/10W)	
R2002	ERJ3GEYJ100	10 / J / (1/10W)	
R2003	ERJ3GEYJ100	10 / J / (1/10W)	
R2004	ERJ3GEYJ100	10 / J / (1/10W)	
R2005	ERJ3GEYJ100	10 / J / (1/10W)	
R2006	ERJ3GEYJ100	10 / J / (1/10W)	
R2007	ERJ3GEYJ100	10 / J / (1/10W)	
R2008	ERJ3GEYJ100	10 / J / (1/10W)	
R2009	ERJ3GEYJ100	10 / J / (1/10W)	
R2010	ERJ3GEYJ100	10 / J / (1/10W)	
R2011	ERJ3GEYJ100	10 / J / (1/10W)	
R2012	ERJ3GEYJ100	10 / J / (1/10W)	
R2013	ERJ3GEYJ100	10 / J / (1/10W)	
R2138	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2139	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2140	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2141	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2142	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2143	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2253	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2254	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2255	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2256	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2257	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2258	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2378	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2379	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2380	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2381	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2383	ERJ3GEY0R00	0-ohm Jumper	
R2385	ERJ3GEY0R00	0-ohm Jumper	
R2386	ERJ3GEY0R00	0-ohm Jumper	
R2388	ERJ3GEY0R00	0-ohm Jumper	
R2390	ERJ3GEY0R00	0-ohm Jumper	
R2392	ERJ3GEY0R00	0-ohm Jumper	
R2393	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2395	ERJ3GEYJ101	100 / J / (1/10W)	
R2396	ERJ3GEYJ102	1K / J / (1/10W)	
R2398	ERJ3GEY0R00	0-ohm Jumper	
R2400	ERJ3GEY0R00	0-ohm Jumper	
R2401	ERJ3GEY0R00	0-ohm Jumper	
R2402	ERJ3GEYJ100	10 / J / (1/10W)	
R2403	ERJ3GEY0R00	0-ohm Jumper	
R2405	ERJ3GEYJ223	22K / J / (1/10W)	
R2406	ERJ3GEYJ223	22K / J / (1/10W)	
R2407	ERJ3GEY0R00	0-ohm Jumper	
R2410	ERJ3GEY0R00	0-ohm Jumper	
R2412	ERJ3GEY0R00	0-ohm Jumper	
R2414	ERJ3GEY0R00	0-ohm Jumper	
R2417	ERJ3GEY0R00	0-ohm Jumper	
R2418	ERJ3GEY0R00	0-ohm Jumper	
R2422	ERJ3GEY0R00	0-ohm Jumper	
R2423	ERJ3GEY0R00	0-ohm Jumper	
R2424	ERJ3GEY0R00	0-ohm Jumper	
R2425	ERJ3GEY0R00	0-ohm Jumper	
R2426	ERJ3GEY0R00	0-ohm Jumper	
R2427	ERJ3GEY0R00	0-ohm Jumper	
R2428	ERJ3GEY0R00	0-ohm Jumper	
R2429	ERJ3GEY0R00	0-ohm Jumper	
R2430	ERJ3GEY0R00	0-ohm Jumper	
R2431	ERJ3GEYJ221	220 / J / (1/10W)	
R2433	ERJ3GEYJ682	6.8K / J / (1/10W)	
R2434	ERJ3GEYJ102	1K / J / (1/10W)	
R2435	ERJ3GEYJ103	10K / J / (1/10W)	
R2438	ERJ3GEYJ220	22 / J / (1/10W)	
R2439	ERJ3GEYJ103	10K / J / (1/10W)	
R2440	ERJ3GEYJ103	10K / J / (1/10W)	
R2441	ERJ3GEYJ103	10K / J / (1/10W)	
R2442	ERJ3GEYJ103	10K / J / (1/10W)	
R2443	ERJ3GEY0R00	0-ohm Jumper	
R2444	ERJ3GEY0R00	0-ohm Jumper	
R2445	ERJ3GEYJ103	10K / J / (1/10W)	
R2446	ERJ3GEYJ103	10K / J / (1/10W)	
R2447	ERJ3GEYJ103	10K / J / (1/10W)	
R2448	ERJ3GEY0R00	0-ohm Jumper	
R2449	ERJ3GEY0R00	0-ohm Jumper	
R2450	ERJ3GEYJ103	10K / J / (1/10W)	
R2451	ERJ3GEYJ105	1000K / J / (1/10W)	
R2452	ERJ3GEYJ100	10 / J / (1/10W)	
R2453	ERJ3GEY0R00	0-ohm Jumper	
R2454	ERJ3GEYJ103	10K / J / (1/10W)	
R2455	ERJ3EKF6201V	6.2K / F / (1/16W)	
R2456	ERJ3GEYJ104	100K / J / (1/10W)	
R2457	ERJ3GEY0R00	0-ohm Jumper	
R2458	ERJ3GEYJ100	10 / J / (1/10W)	
R2459	ERJ3GEY0R00	0-ohm Jumper	
R2460	ERJ3GEYJ100	10 / J / (1/10W)	
R2461	ERJ3GEY0R00	0-ohm Jumper	
R2464	ERJ3GEY0R00	0-ohm Jumper	
R2466	ERJ3GEY0R00	0-ohm Jumper	
R2467	ERJ3GEY0R00	0-ohm Jumper	
R2468	ERJ3GEYJ220	22 / J / (1/10W)	
R2563	ERJ3GEYJ221	220 / J / (1/10W)	
R2564	ERJ3GEYJ221	220 / J / (1/10W)	
R2565	ERJ3GEYJ221	220 / J / (1/10W)	
R2566	ERJ3GEYJ221	220 / J / (1/10W)	
R2567	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2568	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2569	D4FB1R25A005	Poly Switch	
R2570	ERJ3GEYJ220	22 / J / (1/10W)	
R2571	ERJ3GEYJ100	10 / J / (1/10W)	
R2572	ERJ3GEYJ100	10 / J / (1/10W)	
R2573	ERJ3GEYJ100	10 / J / (1/10W)	
R2574	ERJ3GEYJ100	10 / J / (1/10W)	
R2575	ERJ3GEYJ100	10 / J / (1/10W)	
R2576	ERJ3GEYJ100	10 / J / (1/10W)	
R2577	ERJ3GEYJ100	10 / J / (1/10W)	
R2578	ERJ3GEYJ100	10 / J / (1/10W)	

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Ref. No.	Part No.	Part Name & Description	Remarks
R2579	ERJ3GEYJ220	22 / J / (1/10W)	
R2581	ERJ3GEYJ220	22 / J / (1/10W)	
R2582	ERJ3GEYJ220	22 / J / (1/10W)	
R2583	ERJ3GEYJ100	10 / J / (1/10W)	
R2584	ERJ3GEYJ100	10 / J / (1/10W)	
R2585	ERJ3GEYJ100	10 / J / (1/10W)	
R2586	ERJ3GEY0R00	0-ohm Jumper	
R2587	ERJ3GEY0R00	0-ohm Jumper	
R2588	ERJ3GEY0R00	0-ohm Jumper	
R2589	ERJ3GEY0R00	0-ohm Jumper	
R2590	ERJ3GEY0R00	0-ohm Jumper	
R2591	ERJ3GEY0R00	0-ohm Jumper	
R2592	ERJ3GEYJ220	22 / J / (1/10W)	
R2593	ERJ3GEYJ220	22 / J / (1/10W)	
R2594	ERJ3GEYJ220	22 / J / (1/10W)	
R2595	ERJ3GEYJ220	22 / J / (1/10W)	
R2596	ERJ3GEYJ220	22 / J / (1/10W)	
R2597	ERJ3GEYJ220	22 / J / (1/10W)	
R2598	ERJ3GEYJ220	22 / J / (1/10W)	
R2599	ERJ3GEYJ220	22 / J / (1/10W)	
R2600	ERJ3GEYJ220	22 / J / (1/10W)	
R2601	ERJ3GEYJ220	22 / J / (1/10W)	
R2602	ERJ3GEYJ220	22 / J / (1/10W)	
R2603	ERJ3GEYJ220	22 / J / (1/10W)	
R2604	ERJ3GEYJ220	22 / J / (1/10W)	
R2606	ERJ3GEYJ220	22 / J / (1/10W)	
R2607	ERJ3GEYJ220	22 / J / (1/10W)	
R2608	ERJ3GEYJ100	10 / J / (1/10W)	
R2609	ERJ3GEYJ100	10 / J / (1/10W)	
R2610	ERJ3GEYJ100	10 / J / (1/10W)	
R2611	ERJ3GEYJ100	10 / J / (1/10W)	
R2612	ERJ3GEYJ100	10 / J / (1/10W)	
R2613	ERJ3GEYJ100	10 / J / (1/10W)	
R2614	ERJ3GEYJ100	10 / J / (1/10W)	
R2615	ERJ3GEYJ100	10 / J / (1/10W)	
R2616	ERJ3GEYJ220	22 / J / (1/10W)	
R2618	ERJ3GEYJ220	22 / J / (1/10W)	
R2619	ERJ3GEYJ220	22 / J / (1/10W)	
R2620	ERJ3GEYJ103	10K / J / (1/10W)	
R2624	ERJ3GEY0R00	0-ohm Jumper	
R2625	ERJ3GEY0R00	0-ohm Jumper	
R2626	ERJ3GEY0R00	0-ohm Jumper	
R2627	ERJ3GEY0R00	0-ohm Jumper	
R2628	ERJ3GEY0R00	0-ohm Jumper	
R2629	ERJ3GEY0R00	0-ohm Jumper	
R2631	ERJ3GEYJ220	22 / J / (1/10W)	
R2632	ERJ3GEYJ220	22 / J / (1/10W)	
R2633	ERJ3GEYJ220	22 / J / (1/10W)	
R2634	ERJ3GEYJ220	22 / J / (1/10W)	
R2635	ERJ3GEYJ220	22 / J / (1/10W)	
R2636	ERJ3GEYJ220	22 / J / (1/10W)	
R2637	ERJ3GEYJ220	22 / J / (1/10W)	
R2638	ERJ3GEYJ220	22 / J / (1/10W)	
R2639	ERJ3GEYJ220	22 / J / (1/10W)	
R2642	ERJ3GEYJ220	22 / J / (1/10W)	
R2643	ERJ3GEYJ220	22 / J / (1/10W)	
R2644	ERJ3GEYJ220	22 / J / (1/10W)	
R2645	ERJ3GEY0R00	0-ohm Jumper	
R2646	ERJ3GEY0R00	0-ohm Jumper	
R2648	ERJ3GEYJ220	22 / J / (1/10W)	
R2649	ERJ3GEY0R00	0-ohm Jumper	
R2650	ERJ3GEY0R00	0-ohm Jumper	
R2651	ERJ3GEY0R00	0-ohm Jumper	
R2652	ERJ3GEY0R00	0-ohm Jumper	
R2653	ERJ3GEYJ100	10 / J / (1/10W)	
R2654	ERJ3GEYJ100	10 / J / (1/10W)	
R2655	ERJ3GEYJ100	10 / J / (1/10W)	
R2656	ERJ3GEY0R00	0-ohm Jumper	
R2657	ERJ3GEY0R00	0-ohm Jumper	
R2658	ERJ3GEYJ100	10 / J / (1/10W)	
R2659	ERJ3GEYJ100	10 / J / (1/10W)	
R2660	ERJ3GEYJ100	10 / J / (1/10W)	
R2661	ERJ3GEY0R00	0-ohm Jumper	

Ref. No.	Part No.	Part Name & Description	Remarks
R2662	ERJ3GEYJ100	10 / J / (1/10W)	
R2663	ERJ3GEYJ100	10 / J / (1/10W)	
R2664	ERJ3GEYJ100	10 / J / (1/10W)	
R2665	ERJ3GEYJ100	10 / J / (1/10W)	
R2666	ERJ3GEYJ100	10 / J / (1/10W)	
R2667	ERJ3GEYJ100	10 / J / (1/10W)	
R2668	ERJ3GEYJ100	10 / J / (1/10W)	
R2669	ERJ3GEYJ100	10 / J / (1/10W)	
R2670	ERJ3GEYJ100	10 / J / (1/10W)	
R2671	ERJ3GEYJ100	10 / J / (1/10W)	
R2672	ERJ3GEYJ100	10 / J / (1/10W)	
R2673	ERJ3GEYJ100	10 / J / (1/10W)	
R2674	ERJ3GEYJ100	10 / J / (1/10W)	
R2675	ERJ3GEYJ100	10 / J / (1/10W)	
R2676	ERJ3GEYJ100	10 / J / (1/10W)	
R2677	ERJ3GEYJ100	10 / J / (1/10W)	
R2678	ERJ3GEYJ100	10 / J / (1/10W)	
R2679	ERJ3GEY0R00	0-ohm Jumper	
R2682	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2683	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2685	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2686	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2687	ERJ3GEYJ472	4.7K / J / (1/10W)	
R2689	ERJ3GEYJ470	47 / J / (1/10W)	
R2690	ERJ3GEYJ470	47 / J / (1/10W)	
R2700	ERJ3GEY0R00	0-ohm Jumper	
R2701	ERJ3GEYJ102	1K / J / (1/10W)	
R2703	ERJ3GEY0R00	0-ohm Jumper	
R2707	ERJ3GEY0R00	0-ohm Jumper	
R2708	ERJ3GEYJ102	1K / J / (1/10W)	
R2710	ERJ3GEY0R00	0-ohm Jumper	
R2714	ERJ3GEYJ102	1K / J / (1/10W)	
Z2000	D0GZ220J0001	Resistor Array	
Z2001	D0GZ220J0001	Resistor Array	
Z2002	D0GZ220J0001	Resistor Array	
Z2003	D0GZ220J0001	Resistor Array	
Z2004	D0GZ220J0001	Resistor Array	
Z2005	D0GZ220J0001	Resistor Array	
Z2006	D0GZ220J0001	Resistor Array	
Z2007	D0GZ220J0001	Resistor Array	
Z2008	D0GZ220J0001	Resistor Array	
Z2009	D0GZ220J0001	Resistor Array	
Z2010	D0GZ220J0001	Resistor Array	
Z2011	D0GZ220J0001	Resistor Array	
Z2012	D0GZ220J0001	Resistor Array	
Z2013	D0GZ220J0001	Resistor Array	
Z2014	D0GZ220J0001	Resistor Array	
Z2015	D0GZ220J0001	Resistor Array	
Z2163	PJRAMNR14473	Resistor Array	
Z2164	PJRAMNR14473	Resistor Array	
Z2165	PJRAMNR14473	Resistor Array	
Z2166	PJRAMNR14473	Resistor Array	
Z2167	PJRAMNR14473	Resistor Array	
Z2168	PJRAMNR14473	Resistor Array	
Z2222	D1H810040003	Resistor Array	
Z2223	D1H810040003	Resistor Array	
Z2224	D1H810040003	Resistor Array	
Z2225	D1H810040003	Resistor Array	
Z2226	D1H810040003	Resistor Array	
Z2227	D1H810040003	Resistor Array	
Z2228	D1H810040003	Resistor Array	
Z2229	D1H810040003	Resistor Array	
Z2230	D1H810040003	Resistor Array	
Z2231	D1H810040003	Resistor Array	
Z2232	D1H810040003	Resistor Array	
Z2233	D1H810040003	Resistor Array	
Z2234	D1H810040003	Resistor Array	
Z2235	D1H810040003	Resistor Array	
Z2236	D1H810040003	Resistor Array	
Z2237	D1H810040003	Resistor Array	
Z2238	D1H810040003	Resistor Array	
Z2239	D1H810040003	Resistor Array	
Z2240	D1H810040003	Resistor Array	

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Ref. No.	Part No.	Part Name & Description	Remarks
Z2241	D1H810040003	Resistor Array	
Z2242	D1H810040003	Resistor Array	
Z2243	D1H810040003	Resistor Array	
Z2244	D1H810040003	Resistor Array	
Z2245	D1H810040003	Resistor Array	
Z2246	D1H810040003	Resistor Array	
Z2247	D1H810040003	Resistor Array	
Z2248	EXBV8VR000V	Resistor Array	
Z2249	EXBV8VR000V	Resistor Array	
Z2250	EXBV8VR000V	Resistor Array	
Z2251	EXBV8VR000V	Resistor Array	
Z2252	D1H810040003	Resistor Array	
Z2253	D1H810040003	Resistor Array	
Z2254	D1H810040003	Resistor Array	
Z2255	D1H810040003	Resistor Array	
Z2256	D1H810040003	Resistor Array	
Z2257	D1H810040003	Resistor Array	
Z2258	D1H810040003	Resistor Array	
Z2259	D1H810040003	Resistor Array	
Z2260	D1H810040003	Resistor Array	
Z2261	D1H810040003	Resistor Array	
Z2262	D1H810040003	Resistor Array	
Z2263	D1H810040003	Resistor Array	
Z2264	D1H810040003	Resistor Array	
Z2265	D1H810040003	Resistor Array	
Z2266	D1H810040003	Resistor Array	
Z2267	D1H810040003	Resistor Array	
Z2268	D1H810040003	Resistor Array	
Z2269	D1H810040003	Resistor Array	
Z2270	D1H810040003	Resistor Array	
Z2271	D1H810040003	Resistor Array	
Z2272	D1H810040003	Resistor Array	
Z2273	D1H810040003	Resistor Array	
Z2274	D1H810040003	Resistor Array	
Z2275	D1H810040003	Resistor Array	
Z2276	D1H810040003	Resistor Array	
Z2277	D1H810040003	Resistor Array	
Z2278	EXBV8VR000V	Resistor Array	
Z2279	EXBV8VR000V	Resistor Array	
Z2280	EXBV8VR000V	Resistor Array	
Z2281	EXBV8VR000V	Resistor Array	
Z2282	EXBV8VR000V	Resistor Array	
Z2283	EXBV8VR000V	Resistor Array	
Z2284	EXBV8VR000V	Resistor Array	
Z2285	EXBV8VR000V	Resistor Array	
Z2286	D1H810040003	Resistor Array	
Z2287	D1H810040003	Resistor Array	
Z2288	D1H810040003	Resistor Array	
Z2289	D1H810040003	Resistor Array	
Z2290	D1H810040003	Resistor Array	
Z2291	D1H810040003	Resistor Array	
Z2292	D1H810040003	Resistor Array	
Z2293	D1H810040003	Resistor Array	
Z2294	D1H810040003	Resistor Array	
Z2295	D1H810040003	Resistor Array	
Z2296	D1H810040003	Resistor Array	
Z2297	D1H810040003	Resistor Array	
Z2298	D1H810040003	Resistor Array	
Z2299	D1H810040003	Resistor Array	
Z2300	D1H810040003	Resistor Array	
Z2301	D1H810040003	Resistor Array	
Z2302	D1H810040003	Resistor Array	
Z2303	D1H810040003	Resistor Array	
Z2304	D1H810040003	Resistor Array	
Z2305	D1H810040003	Resistor Array	
Z2306	D1H810040003	Resistor Array	
Z2307	D1H810040003	Resistor Array	
Z2308	D1H810040003	Resistor Array	
Z2309	D1H810040003	Resistor Array	
Z2310	D1H810040003	Resistor Array	
Z2311	D1H810040003	Resistor Array	
Z2312	D1H810040003	Resistor Array	
Z2313	D1H810040003	Resistor Array	
Z2314	D1H810040003	Resistor Array	
Z2315	D1H810040003	Resistor Array	
		CAPACITORS	
C2000	F2G1E4R70008	4.7 / M / 25V	
C2001	F2G0G2210002	220 / M / 4V	
C2002	ECUX1H101JCV	100P / J / 50V	
C2003	ECUX1H101JCV	100P / J / 50V	
C2004	ECUX1E104ZFV	0.1 / Z / 25V	
C2005	F2G1A1010013	100 / M / 10V	
C2006	ECUX1H101JCV	100P / J / 50V	
C2007	ECUX1E104ZFV	0.1 / Z / 25V	
C2008	ECUX1E104ZFV	0.1 / Z / 25V	
C2009	ECUX1H101JCV	100P / J / 50V	
C2010	ECUX1H101JCV	100P / J / 50V	
C2011	F2G1A1010013	100 / M / 10V	
C2012	ECUX1E104ZFV	0.1 / Z / 25V	
C2013	ECUX1E104ZFV	0.1 / Z / 25V	
C2014	F2G1E4R70008	4.7 / M / 25V	
C2015	F2G0G2210002	220 / M / 4V	
C2108	ECUX1E104ZFV	0.1 / Z / 25V	
C2109	ECUX1E104ZFV	0.1 / Z / 25V	
C2110	ECUX1E104ZFV	0.1 / Z / 25V	
C2111	ECUX1H101JCV	100P / J / 50V	
C2112	ECUX1H101JCV	100P / J / 50V	
C2113	ECUX1H101JCV	100P / J / 50V	
C2114	ECUX1E104ZFV	0.1 / Z / 25V	
C2115	ECUX1E104ZFV	0.1 / Z / 25V	
C2116	ECUX1E104ZFV	0.1 / Z / 25V	
C2117	ECUX1H101JCV	100P / J / 50V	
C2118	ECUX1H101JCV	100P / J / 50V	
C2119	ECUX1H101JCV	100P / J / 50V	
C2120	ECUX1H101JCV	100P / J / 50V	
C2121	ECUX1H101JCV	100P / J / 50V	
C2122	ECUX1E104ZFV	0.1 / Z / 25V	
C2123	ECUX1H101JCV	100P / J / 50V	
C2124	ECUX1E104ZFV	0.1 / Z / 25V	
C2125	ECUX1H101JCV	100P / J / 50V	
C2126	ECUX1E104ZFV	0.1 / Z / 25V	
C2127	ECUX1H101JCV	100P / J / 50V	
C2128	ECUX1E104ZFV	0.1 / Z / 25V	
C2129	ECUX1H101JCV	100P / J / 50V	
C2130	ECUX1E104ZFV	0.1 / Z / 25V	
C2131	ECUX1H101JCV	100P / J / 50V	
C2132	ECUX1E104ZFV	0.1 / Z / 25V	
C2133	ECUX1H101JCV	100P / J / 50V	
C2134	ECUX1E104ZFV	0.1 / Z / 25V	
C2135	ECUX1H101JCV	100P / J / 50V	
C2136	ECUX1E104ZFV	0.1 / Z / 25V	
C2137	ECUX1H101JCV	100P / J / 50V	
C2138	ECUX1E104ZFV	0.1 / Z / 25V	
C2139	ECUX1H101JCV	100P / J / 50V	
C2140	ECUX1E104ZFV	0.1 / Z / 25V	
C2141	ECUX1H101JCV	100P / J / 50V	
C2142	ECUX1E104ZFV	0.1 / Z / 25V	
C2143	ECUX1E104ZFV	0.1 / Z / 25V	
C2144	ECUX1E104ZFV	0.1 / Z / 25V	
C2145	ECUX1H101JCV	100P / J / 50V	
C2146	ECUX1E104ZFV	0.1 / Z / 25V	
C2147	ECUX1E104ZFV	0.1 / Z / 25V	
C2148	ECUX1E104ZFV	0.1 / Z / 25V	
C2149	ECUX1H101JCV	100P / J / 50V	
C2150	ECUX1H101JCV	100P / J / 50V	
C2151	ECUX1H101JCV	100P / J / 50V	
C2152	ECUX1E104ZFV	0.1 / Z / 25V	
C2153	ECUX1E104ZFV	0.1 / Z / 25V	
C2154	ECUX1H101JCV	100P / J / 50V	
C2155	ECUX1H101JCV	100P / J / 50V	
C2227	ECUX1E104ZFV	0.1 / Z / 25V	
C2228	ECUX1E104ZFV	0.1 / Z / 25V	
C2229	ECUX1E104ZFV	0.1 / Z / 25V	
C2230	ECUX1H101JCV	100P / J / 50V	
C2231	ECUX1H101JCV	100P / J / 50V	
C2232	ECUX1H101JCV	100P / J / 50V	

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Ref. No.	Part No.	Part Name & Description	Remarks
C2233	ECUX1E104ZFV	0.1 / Z / 25V	
C2234	ECUX1E104ZFV	0.1 / Z / 25V	
C2235	ECUX1E104ZFV	0.1 / Z / 25V	
C2236	ECUX1H101JCV	100P / J / 50V	
C2237	ECUX1H101JCV	100P / J / 50V	
C2238	ECUX1H101JCV	100P / J / 50V	
C2239	ECUX1H101JCV	100P / J / 50V	
C2240	ECUX1H101JCV	100P / J / 50V	
C2241	ECUX1E104ZFV	0.1 / Z / 25V	
C2242	ECUX1H101JCV	100P / J / 50V	
C2243	ECUX1E104ZFV	0.1 / Z / 25V	
C2244	ECUX1H101JCV	100P / J / 50V	
C2245	ECUX1E104ZFV	0.1 / Z / 25V	
C2246	ECUX1H101JCV	100P / J / 50V	
C2247	ECUX1E104ZFV	0.1 / Z / 25V	
C2248	ECUX1H101JCV	100P / J / 50V	
C2249	ECUX1E104ZFV	0.1 / Z / 25V	
C2250	ECUX1H101JCV	100P / J / 50V	
C2251	ECUX1E104ZFV	0.1 / Z / 25V	
C2252	ECUX1H101JCV	100P / J / 50V	
C2253	ECUX1E104ZFV	0.1 / Z / 25V	
C2254	ECUX1H101JCV	100P / J / 50V	
C2255	ECUX1E104ZFV	0.1 / Z / 25V	
C2256	ECUX1H101JCV	100P / J / 50V	
C2257	ECUX1E104ZFV	0.1 / Z / 25V	
C2258	ECUX1H101JCV	100P / J / 50V	
C2259	ECUX1E104ZFV	0.1 / Z / 25V	
C2260	ECUX1H101JCV	100P / J / 50V	
C2261	ECUX1E104ZFV	0.1 / Z / 25V	
C2262	ECUX1E104ZFV	0.1 / Z / 25V	
C2263	ECUX1E104ZFV	0.1 / Z / 25V	
C2264	ECUX1H101JCV	100P / J / 50V	
C2265	ECUX1E104ZFV	0.1 / Z / 25V	
C2266	ECUX1E104ZFV	0.1 / Z / 25V	
C2267	ECUX1E104ZFV	0.1 / Z / 25V	
C2268	ECUX1H101JCV	100P / J / 50V	
C2269	ECUX1H101JCV	100P / J / 50V	
C2270	ECUX1H101JCV	100P / J / 50V	
C2271	ECUX1E104ZFV	0.1 / Z / 25V	
C2272	ECUX1E104ZFV	0.1 / Z / 25V	
C2273	ECUX1H101JCV	100P / J / 50V	
C2274	ECUX1H101JCV	100P / J / 50V	
C2365	ECUX1E104ZFV	0.1 / Z / 25V	
C2366	ECUX1E104ZFV	0.1 / Z / 25V	
C2367	ECUX1H101JCV	100P / J / 50V	
C2368	ECUX1H101JCV	100P / J / 50V	
C2369	ECUX1E104ZFV	0.1 / Z / 25V	
C2370	ECUX1E104ZFV	0.1 / Z / 25V	
C2371	ECUX1H101JCV	100P / J / 50V	
C2372	ECUX1H101JCV	100P / J / 50V	
C2373	ECUX1E104ZFV	0.1 / Z / 25V	
C2374	ECUX1H101JCV	100P / J / 50V	
C2375	ECUX1H101JCV	100P / J / 50V	
C2376	ECUX1H101JCV	100P / J / 50V	
C2377	ECUX1E104ZFV	0.1 / Z / 25V	
C2378	ECUX1E104ZFV	0.1 / Z / 25V	
C2379	ECUX1E104ZFV	0.1 / Z / 25V	
C2380	ECUX1H101JCV	100P / J / 50V	
C2381	ECUX1H101JCV	100P / J / 50V	
C2382	ECUX1H101JCV	100P / J / 50V	
C2383	ECUX1E104ZFV	0.1 / Z / 25V	
C2384	ECUX1E104ZFV	0.1 / Z / 25V	
C2385	ECUX1H101JCV	100P / J / 50V	
C2386	ECUX1H101JCV	100P / J / 50V	
C2387	ECUX1E104ZFV	0.1 / Z / 25V	
C2388	ECUX1E104ZFV	0.1 / Z / 25V	
C2389	ECUX1E104ZFV	0.1 / Z / 25V	
C2390	ECUX1H101JCV	100P / J / 50V	
C2391	ECUX1H101JCV	100P / J / 50V	
C2392	ECUX1H101JCV	100P / J / 50V	
C2393	ECUX1E104ZFV	0.1 / Z / 25V	
C2394	ECUX1E104ZFV	0.1 / Z / 25V	
C2395	ECUX1E104ZFV	0.1 / Z / 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C2396	ECUX1H101JCV	100P / J / 50V	
C2397	ECUX1E104ZFV	0.1 / Z / 25V	
C2398	ECUX1E104ZFV	0.1 / Z / 25V	
C2399	ECUX1H101JCV	100P / J / 50V	
C2400	ECUX1E104ZFV	0.1 / Z / 25V	
C2401	ECUX1H101JCV	100P / J / 50V	
C2402	ECUX1E104ZFV	0.1 / Z / 25V	
C2403	ECUX1H101JCV	100P / J / 50V	
C2404	ECUX1E104ZFV	0.1 / Z / 25V	
C2405	ECUX1H101JCV	100P / J / 50V	
C2406	ECUX1E104ZFV	0.1 / Z / 25V	
C2407	ECUX1H101JCV	100P / J / 50V	
C2408	ECUX1H101JCV	100P / J / 50V	
C2409	ECUX1H101JCV	100P / J / 50V	
C2410	ECUX1H101JCV	100P / J / 50V	
C2411	ECUX1E104ZFV	0.1 / Z / 25V	
C2412	ECUX1E104ZFV	0.1 / Z / 25V	
C2413	ECUX1H101JCV	100P / J / 50V	
C2414	ECUX1H101JCV	100P / J / 50V	
C2415	ECUX1E104ZFV	0.1 / Z / 25V	
C2416	ECUX1E104ZFV	0.1 / Z / 25V	
C2417	ECUX1E104ZFV	0.1 / Z / 25V	
C2418	ECUX1H101JCV	100P / J / 50V	
C2419	ECUX1H101JCV	100P / J / 50V	
C2420	ECUX1H101JCV	100P / J / 50V	
C2421	ECUX1E104ZFV	0.1 / Z / 25V	
C2422	ECUX1E104ZFV	0.1 / Z / 25V	
C2423	ECUX1E104ZFV	0.1 / Z / 25V	
C2424	ECUX1H101JCV	100P / J / 50V	
C2425	ECUX1H101JCV	100P / J / 50V	
C2426	ECUX1H101JCV	100P / J / 50V	
C2427	ECUX1E104ZFV	0.1 / Z / 25V	
C2428	ECUX1E104ZFV	0.1 / Z / 25V	
C2429	F2G1A1010013	100 / M / 10V	
C2430	ECUX1H101JCV	100P / J / 50V	
C2431	ECUX1E104ZFV	0.1 / Z / 25V	
C2432	ECUX1H101JCV	100P / J / 50V	
C2433	ECUX1E104ZFV	0.1 / Z / 25V	
C2434	ECUX1H101JCV	100P / J / 50V	
C2435	ECUX1E104ZFV	0.1 / Z / 25V	
C2436	ECUX1H101JCV	100P / J / 50V	
C2437	ECUX1E104ZFV	0.1 / Z / 25V	
C2438	ECUX1H101JCV	100P / J / 50V	
C2439	ECUX1E104ZFV	0.1 / Z / 25V	
C2440	ECUX1H101JCV	100P / J / 50V	
C2441	ECUX1E104ZFV	0.1 / Z / 25V	
C2442	ECUX1H101JCV	100P / J / 50V	
C2443	ECUX1H101JCV	100P / J / 50V	
C2444	ECUX1E104ZFV	0.1 / Z / 25V	
C2445	ECUX1H101JCV	100P / J / 50V	
C2446	ECUX1E104ZFV	0.1 / Z / 25V	
C2447	F2G1A1010013	100 / M / 10V	
C2448	ECUX1H470JCV	47P / J / 50V	
C2449	ECUX1H101JCV	100P / J / 50V	
C2450	ECUX1E104ZFV	0.1 / Z / 25V	
C2451	ECUX1H470JCV	47P / J / 50V	
C2452	ECUX1H470JCV	47P / J / 50V	
C2453	ECUX1E104ZFV	0.1 / Z / 25V	
C2454	ECUX1H103KBV	0.01 / K / 50V	
C2455	ECUX1H101JCV	100P / J / 50V	
C2456	ECUX1H102KBV	1000P / K / 50V	
C2457	ECUX1E104ZFV	0.1 / Z / 25V	
C2458	ECUX1H101JCV	100P / J / 50V	
C2459	ECUX1H101JCV	100P / J / 50V	
C2460	ECUX1E104ZFV	0.1 / Z / 25V	
C2461	ECUX1E104ZFV	0.1 / Z / 25V	
C2462	ECUX1E104ZFV	0.1 / Z / 25V	
C2463	ECUX1E104ZFV	0.1 / Z / 25V	
C2464	F2G1E4R70008	4.7 / M / 25V	
C2465	F2G1E4R70008	4.7 / M / 25V	
C2466	F2G1E4R70008	4.7 / M / 25V	
C2467	ECUV1H222KBV	2200P / K / 50V	
C2468	ECUX1C224ZFV	0.22 / Z / 16V	

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Ref. No.	Part No.	Part Name & Description	Remarks
C2469	ECUX1H120JCV	12P / J / 50V	
C2470	ECUX1H101JCV	100P / J / 50V	
C2471	F2G1A1010013	100 / M / 10V	
C2472	ECUX1E104ZFV	0.1 / Z / 25V	
C2473	ECUX1H102KBV	1000P / K / 50V	
C2474	ECUX1E104ZFV	0.1 / Z / 25V	
C2475	ECUX1E104ZFV	0.1 / Z / 25V	
C2476	ECUX1E104ZFV	0.1 / Z / 25V	
C2477	ECUX1E104ZFV	0.1 / Z / 25V	
C2478	ECUX1E104ZFV	0.1 / Z / 25V	
C2479	ECUX1H102KBV	1000P / K / 50V	
C2480	ECUX1E104ZFV	0.1 / Z / 25V	
C2481	ECUX1E104ZFV	0.1 / Z / 25V	
C2482	ECUX1H102KBV	1000P / K / 50V	
C2483	ECUX1E104ZFV	0.1 / Z / 25V	
C2484	ECUX1E104ZFV	0.1 / Z / 25V	
C2485	ECUX1H102KBV	1000P / K / 50V	
C2486	ECUX1E104ZFV	0.1 / Z / 25V	
C2487	ECUX1E104ZFV	0.1 / Z / 25V	
C2488	ECUX1H102KBV	1000P / K / 50V	
C2489	ECUX1E104ZFV	0.1 / Z / 25V	
C2490	ECUX1H102KBV	1000P / K / 50V	
C2491	ECUX1E104ZFV	0.1 / Z / 25V	
C2492	ECUX1H102KBV	1000P / K / 50V	
C2493	ECUX1E104ZFV	0.1 / Z / 25V	
C2494	ECUX1E104ZFV	0.1 / Z / 25V	
C2495	ECUX1H102KBV	1000P / K / 50V	
C2496	ECUX1H102KBV	1000P / K / 50V	
C2497	ECUX1E104ZFV	0.1 / Z / 25V	
C2498	ECUX1H102KBV	1000P / K / 50V	
C2499	ECUX1E104ZFV	0.1 / Z / 25V	
C2500	ECUX1H102KBV	1000P / K / 50V	
C2501	ECUX1E104ZFV	0.1 / Z / 25V	
C2502	ECUX1H102KBV	1000P / K / 50V	
C2503	ECUX1E104ZFV	0.1 / Z / 25V	
C2504	ECUX1H102KBV	1000P / K / 50V	
C2505	ECUX1E104ZFV	0.1 / Z / 25V	
C2506	ECUX1H101JCV	100P / J / 50V	
C2507	ECUX1H102KBV	1000P / K / 50V	
C2508	ECUX1E104ZFV	0.1 / Z / 25V	
C2509	ECUX1H102KBV	1000P / K / 50V	
C2510	ECUX1E104ZFV	0.1 / Z / 25V	
C2511	ECUX1H102KBV	1000P / K / 50V	
C2512	F2G1A1010013	100 / M / 10V	
C2513	ECUX1H101JCV	100P / J / 50V	
C2514	ECUX1H101JCV	100P / J / 50V	
C2515	ECUX1H101JCV	100P / J / 50V	
C2516	ECUX1E104ZFV	0.1 / Z / 25V	
C2517	ECUX1H101JCV	100P / J / 50V	
C2518	ECUX1E104ZFV	0.1 / Z / 25V	
C2519	ECUX1H101JCV	100P / J / 50V	
C2520	ECUX1E104ZFV	0.1 / Z / 25V	
C2521	ECUX1H101JCV	100P / J / 50V	
C2522	ECUX1E104ZFV	0.1 / Z / 25V	
C2523	ECUX1H101JCV	100P / J / 50V	
C2524	ECUX1E104ZFV	0.1 / Z / 25V	
C2525	ECUX1H101JCV	100P / J / 50V	
C2526	ECUX1E104ZFV	0.1 / Z / 25V	
C2527	ECUX1H101JCV	100P / J / 50V	
C2528	ECUV1H150JCV	15P / J / 50V	
C2529	ECUV1H150JCV	15P / J / 50V	
C2530	ECUX1H102KBV	1000P / K / 50V	
C2531	ECJ1VB1C105K	1 / K / 16V	
C2532	ECUX1H101JCV	100P / J / 50V	
C2533	ECUX1E104ZFV	0.1 / Z / 25V	
C2534	ECUX1E104ZFV	0.1 / Z / 25V	
C2535	ECUX1H101JCV	100P / J / 50V	
C2536	ECUX1H101JCV	100P / J / 50V	
C2537	ECJ1VB1C105K	1 / K / 16V	
C2538	ECUX1H101JCV	100P / J / 50V	
C2539	ECUX1E104ZFV	0.1 / Z / 25V	
C2540	ECUX1H101JCV	100P / J / 50V	
C2541	ECUX1E104ZFV	0.1 / Z / 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C2542	ECUX1E104ZFV	0.1 / Z / 25V	
C2543	ECUX1H101JCV	100P / J / 50V	
C2544	ECUX1H101JCV	100P / J / 50V	
C2545	ECUX1E104ZFV	0.1 / Z / 25V	
C2621	ECUX1H101JCV	100P / J / 50V	
C2654	ECUX1H101JCV	100P / J / 50V	
C2671	ECUX1E104ZFV	0.1 / Z / 25V	
C2672	ECUX1H101JCV	100P / J / 50V	
C2673	ECUX1E104ZFV	0.1 / Z / 25V	
C2674	ECUX1H101JCV	100P / J / 50V	
C2675	ECUX1E104ZFV	0.1 / Z / 25V	
C2676	ECUX1H101JCV	100P / J / 50V	
C2677	ECUX1E104ZFV	0.1 / Z / 25V	
C2678	ECUX1H101JCV	100P / J / 50V	
C2687	ECUX1H101JCV	100P / J / 50V	
C2688	ECUX1E104ZFV	0.1 / Z / 25V	
C2689	ECUX1H101JCV	100P / J / 50V	
C2690	ECUX1E104ZFV	0.1 / Z / 25V	
C2691	ECUX1H101JCV	100P / J / 50V	
C2692	ECUX1E104ZFV	0.1 / Z / 25V	
C2693	ECUX1H101JCV	100P / J / 50V	
C2694	ECUX1E104ZFV	0.1 / Z / 25V	
C2695	ECUX1H101JCV	100P / J / 50V	
C2696	ECUX1E104ZFV	0.1 / Z / 25V	
C2697	ECUX1H101JCV	100P / J / 50V	
C2698	ECUX1E104ZFV	0.1 / Z / 25V	
C2699	ECUX1H101JCV	100P / J / 50V	
C2700	ECUX1E104ZFV	0.1 / Z / 25V	
C2701	ECUX1H101JCV	100P / J / 50V	
C2702	ECUX1E104ZFV	0.1 / Z / 25V	
C2703	ECUX1H101JCV	100P / J / 50V	
C2704	ECUX1E104ZFV	0.1 / Z / 25V	
C2705	ECUX1H101JCV	100P / J / 50V	
C2706	ECUX1E104ZFV	0.1 / Z / 25V	
C2707	ECUX1H101JCV	100P / J / 50V	
C2708	ECUX1E104ZFV	0.1 / Z / 25V	
C2709	ECUX1H101JCV	100P / J / 50V	
C2710	ECUX1E104ZFV	0.1 / Z / 25V	
C2711	ECUX1H101JCV	100P / J / 50V	
C2712	ECUX1E104ZFV	0.1 / Z / 25V	
C2713	ECUX1H101JCV	100P / J / 50V	
C2714	ECUX1E104ZFV	0.1 / Z / 25V	
C2715	ECUX1H101JCV	100P / J / 50V	
C2716	ECUX1E104ZFV	0.1 / Z / 25V	
C2717	ECUX1H101JCV	100P / J / 50V	
C2718	ECUX1E104ZFV	0.1 / Z / 25V	
C2719	ECUX1H101JCV	100P / J / 50V	
C2720	ECUX1E104ZFV	0.1 / Z / 25V	
C2721	ECUX1H101JCV	100P / J / 50V	
C2722	ECUX1E104ZFV	0.1 / Z / 25V	
C2723	ECUX1H101JCV	100P / J / 50V	
C2724	ECUX1E104ZFV	0.1 / Z / 25V	
C2725	ECUX1H101JCV	100P / J / 50V	
C2726	F2G0G2210002	220 / M / 4V	
C2727	ECUX1E104ZFV	0.1 / Z / 25V	
C2728	ECUX1E104ZFV	0.1 / Z / 25V	
C2729	ECUX1H101JCV	100P / J / 50V	
C2730	ECUX1E104ZFV	0.1 / Z / 25V	
C2731	ECUX1H101JCV	100P / J / 50V	
C2732	ECUX1E104ZFV	0.1 / Z / 25V	
C2733	ECUX1H101JCV	100P / J / 50V	
C2734	ECUX1E104ZFV	0.1 / Z / 25V	
C2735	ECUX1E104ZFV	0.1 / Z / 25V	
C2736	F2G0G2210002	220 / M / 4V	
C2737	ECUX1H101JCV	100P / J / 50V	
C2738	ECUX1H102JCV	1000P / J / 50V	
C2739	ECUX1E104ZFV	0.1 / Z / 25V	
C2740	ECUX1E104ZFV	0.1 / Z / 25V	
C2741	ECUX1H101JCV	100P / J / 50V	
C2742	ECUX1H101JCV	100P / J / 50V	
C2743	ECUX1E104ZFV	0.1 / Z / 25V	
C2744	ECUX1E104ZFV	0.1 / Z / 25V	
C2745	ECUX1H101JCV	100P / J / 50V	

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Ref. No.	Part No.	Part Name & Description	Remarks
C2746	ECUX1H101JCV	100P / J / 50V	
C2747	ECUX1E104ZFV	0.1 / Z / 25V	
C2748	ECUX1E104ZFV	0.1 / Z / 25V	
C2749	ECUX1H101JCV	100P / J / 50V	
C2750	ECUX1H101JCV	100P / J / 50V	
C2751	F2G0G2210002	220 / M / 4V	
C2752	ECUX1E104ZFV	0.1 / Z / 25V	
C2753	ECUX1E104ZFV	0.1 / Z / 25V	
C2754	ECUX1E104ZFV	0.1 / Z / 25V	
C2755	ECUX1E104ZFV	0.1 / Z / 25V	
C2756	ECUX1E104ZFV	0.1 / Z / 25V	
C2757	ECUX1H101JCV	100P / J / 50V	
C2758	ECUX1H101JCV	100P / J / 50V	
C2759	ECUX1H101JCV	100P / J / 50V	
C2760	ECUX1H101JCV	100P / J / 50V	
C2761	ECUX1H101JCV	100P / J / 50V	
C2762	ECUX1E104ZFV	0.1 / Z / 25V	
C2763	ECUX1E104ZFV	0.1 / Z / 25V	
C2764	ECUX1E104ZFV	0.1 / Z / 25V	
C2765	ECUX1E104ZFV	0.1 / Z / 25V	
C2766	ECUX1E104ZFV	0.1 / Z / 25V	
C2767	ECUX1H101JCV	100P / J / 50V	
C2768	ECUX1H101JCV	100P / J / 50V	
C2769	ECUX1H101JCV	100P / J / 50V	
C2770	ECUX1H101JCV	100P / J / 50V	
C2771	ECUX1H101JCV	100P / J / 50V	
C2772	ECUX1E104ZFV	0.1 / Z / 25V	
C2773	ECUX1E104ZFV	0.1 / Z / 25V	
C2774	ECUX1E104ZFV	0.1 / Z / 25V	
C2775	ECUX1E104ZFV	0.1 / Z / 25V	
C2776	ECUX1E104ZFV	0.1 / Z / 25V	
C2777	ECUX1H101JCV	100P / J / 50V	
C2778	ECUX1H101JCV	100P / J / 50V	
C2779	ECUX1H101JCV	100P / J / 50V	
C2780	ECUX1H101JCV	100P / J / 50V	
C2781	ECUX1H101JCV	100P / J / 50V	
C2782	ECUX1E104ZFV	0.1 / Z / 25V	
C2783	ECUX1E104ZFV	0.1 / Z / 25V	
C2784	ECUX1E104ZFV	0.1 / Z / 25V	
C2785	ECUX1E104ZFV	0.1 / Z / 25V	
C2786	ECUX1E104ZFV	0.1 / Z / 25V	
C2787	ECUX1H101JCV	100P / J / 50V	
C2788	ECUX1H101JCV	100P / J / 50V	
C2789	ECUX1H101JCV	100P / J / 50V	
C2790	ECUX1H101JCV	100P / J / 50V	
C2791	ECUX1H101JCV	100P / J / 50V	
C2792	ECUX1E104ZFV	0.1 / Z / 25V	
C2793	ECUX1E104ZFV	0.1 / Z / 25V	
C2794	ECUX1H101JCV	100P / J / 50V	
C2795	ECUX1H101JCV	100P / J / 50V	
C2796	ECUX1E104ZFV	0.1 / Z / 25V	
C2797	ECUX1H101JCV	100P / J / 50V	
C2798	ECUX1E104ZFV	0.1 / Z / 25V	
C2799	ECUX1H101JCV	100P / J / 50V	
C2800	ECUX1E104ZFV	0.1 / Z / 25V	
C2801	ECUX1H101JCV	100P / J / 50V	
C2802	ECUX1E104ZFV	0.1 / Z / 25V	
C2803	ECUX1H101JCV	100P / J / 50V	
C2804	ECUX1H102JCV	1000P / J / 50V	
C2805	F2G0G2210002	220 / M / 4V	
C2806	ECUX1E104ZFV	0.1 / Z / 25V	
C2807	ECUX1E104ZFV	0.1 / Z / 25V	
C2808	ECUX1H101JCV	100P / J / 50V	
C2809	ECUX1H101JCV	100P / J / 50V	
C2810	ECUX1E104ZFV	0.1 / Z / 25V	
C2811	ECUX1E104ZFV	0.1 / Z / 25V	
C2812	ECUX1H101JCV	100P / J / 50V	
C2813	ECUX1H101JCV	100P / J / 50V	
C2814	ECUX1E104ZFV	0.1 / Z / 25V	
C2815	ECUX1E104ZFV	0.1 / Z / 25V	
C2816	ECUX1H101JCV	100P / J / 50V	
C2817	ECUX1H101JCV	100P / J / 50V	
C2818	ECUX1E104ZFV	0.1 / Z / 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C2819	ECUX1E104ZFV	0.1 / Z / 25V	
C2820	ECUX1E104ZFV	0.1 / Z / 25V	
C2821	ECUX1E104ZFV	0.1 / Z / 25V	
C2822	ECUX1H101JCV	100P / J / 50V	
C2823	ECUX1H101JCV	100P / J / 50V	
C2824	ECUX1H101JCV	100P / J / 50V	
C2825	ECUX1H101JCV	100P / J / 50V	
C2826	ECUX1E104ZFV	0.1 / Z / 25V	
C2827	ECUX1E104ZFV	0.1 / Z / 25V	
C2828	ECUX1E104ZFV	0.1 / Z / 25V	
C2829	ECUX1E104ZFV	0.1 / Z / 25V	
C2830	ECUX1H101JCV	100P / J / 50V	
C2831	ECUX1H101JCV	100P / J / 50V	
C2832	ECUX1H101JCV	100P / J / 50V	
C2833	ECUX1H101JCV	100P / J / 50V	
C2834	ECUX1E104ZFV	0.1 / Z / 25V	
C2835	ECUX1E104ZFV	0.1 / Z / 25V	
C2836	ECUX1E104ZFV	0.1 / Z / 25V	
C2837	ECUX1E104ZFV	0.1 / Z / 25V	
C2838	ECUX1H101JCV	100P / J / 50V	
C2839	ECUX1H101JCV	100P / J / 50V	
C2840	ECUX1H101JCV	100P / J / 50V	
C2841	ECUX1H101JCV	100P / J / 50V	
C2842	ECUX1E104ZFV	0.1 / Z / 25V	
C2843	ECUX1E104ZFV	0.1 / Z / 25V	
C2844	ECUX1E104ZFV	0.1 / Z / 25V	
C2845	ECUX1E104ZFV	0.1 / Z / 25V	
C2846	ECUX1H101JCV	100P / J / 50V	
C2847	ECUX1H101JCV	100P / J / 50V	
C2848	ECUX1H101JCV	100P / J / 50V	
C2849	ECUX1H101JCV	100P / J / 50V	
C2850	ECUX1E104ZFV	0.1 / Z / 25V	
C2851	ECUX1E104ZFV	0.1 / Z / 25V	
C2852	ECUX1H101JCV	100P / J / 50V	
C2853	ECUX1H101JCV	100P / J / 50V	
C2854	ECUX1E104ZFV	0.1 / Z / 25V	
C2855	ECUX1E104ZFV	0.1 / Z / 25V	
C2856	F2G0G2210002	220 / M / 4V	
C2857	ECUX1H821JCV	820P / J / 50V	
C2858	ECUX1E104ZFV	0.1 / Z / 25V	
C2859	ECUX1H101JCV	100P / J / 50V	
C2860	ECUX1E104ZFV	0.1 / Z / 25V	
C2861	ECUX1H101JCV	100P / J / 50V	
C2862	ECUX1E104ZFV	0.1 / Z / 25V	
C2863	ECUX1H101JCV	100P / J / 50V	
C2864	ECUX1E104ZFV	0.1 / Z / 25V	
C2865	ECUX1E104ZFV	0.1 / Z / 25V	
C2866	ECUX1E104ZFV	0.1 / Z / 25V	
C2867	ECUX1E104ZFV	0.1 / Z / 25V	
C2868	ECUX1H101JCV	100P / J / 50V	
C2869	ECUX1H101JCV	100P / J / 50V	
C2870	ECUX1H101JCV	100P / J / 50V	
C2871	ECUX1H101JCV	100P / J / 50V	
C2872	ECUX1E104ZFV	0.1 / Z / 25V	
C2873	ECUX1E104ZFV	0.1 / Z / 25V	
C2874	ECUX1E104ZFV	0.1 / Z / 25V	
C2875	ECUX1E104ZFV	0.1 / Z / 25V	
C2876	ECUX1H101JCV	100P / J / 50V	
C2877	ECUX1H101JCV	100P / J / 50V	
C2878	ECUX1H101JCV	100P / J / 50V	
C2879	ECUX1H101JCV	100P / J / 50V	
C2880	ECUX1E104ZFV	0.1 / Z / 25V	
C2881	ECUX1E104ZFV	0.1 / Z / 25V	
C2882	ECUX1E104ZFV	0.1 / Z / 25V	
C2883	ECUX1E104ZFV	0.1 / Z / 25V	
C2884	ECUX1H101JCV	100P / J / 50V	
C2885	ECUX1H101JCV	100P / J / 50V	
C2886	ECUX1H101JCV	100P / J / 50V	
C2887	ECUX1H101JCV	100P / J / 50V	
C2888	ECUX1E104ZFV	0.1 / Z / 25V	
C2889	ECUX1E104ZFV	0.1 / Z / 25V	
C2890	ECUX1E104ZFV	0.1 / Z / 25V	
C2891	ECUX1E104ZFV	0.1 / Z / 25V	

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Ref. No.	Part No.	Part Name & Description	Remarks
C2892	ECUX1H101JCV	100P / J / 50V	
C2893	ECUX1H101JCV	100P / J / 50V	
C2894	ECUX1H101JCV	100P / J / 50V	
C2895	ECUX1H101JCV	100P / J / 50V	
C2896	F2G1A1010013	100 / M / 10V	
C2897	F2G1C1000014	100 / M / 16V	
C2898	ECUX1E104ZFV	0.1 / Z / 25V	
C2899	ECUX1E104ZFV	0.1 / Z / 25V	
C2900	F2G1C1000014	100 / M / 16V	
C2901	ECUX1E104ZFV	0.1 / Z / 25V	
C2902	ECUX1H101JCV	100P / J / 50V	
C2903	ECUX1H101JCV	100P / J / 50V	
C2904	ECUX1E104ZFV	0.1 / Z / 25V	
C2905	ECUX1E104ZFV	0.1 / Z / 25V	
C2906	ECUX1H101JCV	100P / J / 50V	
C2907	ECUX1H101JCV	100P / J / 50V	
C2908	ECUX1E104ZFV	0.1 / Z / 25V	
C2909	ECUX1E104ZFV	0.1 / Z / 25V	
C2910	ECUX1H101JCV	100P / J / 50V	
C2911	ECUX1H101JCV	100P / J / 50V	
C2912	ECUX1E104ZFV	0.1 / Z / 25V	
C2913	ECUX1H101JCV	100P / J / 50V	
C2914	ECUX1H101JCV	100P / J / 50V	
C2921	F2G0G2210002	220 / M / 4V	
C2922	F2G0G2210002	220 / M / 4V	
C2923	F2G0G2210002	220 / M / 4V	
C2924	F2G0G2210002	220 / M / 4V	
C2925	F2G0G2210002	220 / M / 4V	
		COILS	
L2015	J0JCC0000059	Inductor Coil	
L2016	J0JCC0000059	Inductor Coil	
L2017	J0JCC0000059	Inductor Coil	
L2018	J0JCC0000059	Inductor Coil	
L2019	J0JCC0000059	Inductor Coil	
L2020	J0JCC0000059	Inductor Coil	
L2027	J0JCC0000059	Inductor Coil	
L2028	J0JCC0000059	Inductor Coil	
L2029	J0JCC0000059	Inductor Coil	
L2030	J0JCC0000059	Inductor Coil	
L2031	J0JCC0000059	Inductor Coil	
L2032	J0JCC0000059	Inductor Coil	
L2048	J0JCC0000059	Inductor Coil	
L2049	J0JCC0000059	Inductor Coil	
L2050	J0JCC0000059	Inductor Coil	
L2051	J0JCC0000059	Inductor Coil	
L2052	J0JCC0000059	Inductor Coil	
L2053	J0JCC0000059	Inductor Coil	
L2054	J0JCC0000059	Inductor Coil	
L2055	J0JCC0000059	Inductor Coil	
L2056	J0JCC0000059	Inductor Coil	
L2057	J0JCC0000059	Inductor Coil	
L2058	J0JCC0000059	Inductor Coil	
L2059	J0JCC0000059	Inductor Coil	
L2060	J0JCC0000059	Inductor Coil	
L2061	J0JCC0000059	Inductor Coil	
L2062	J0JCC0000059	Inductor Coil	
L2063	J0JCC0000059	Inductor Coil	
L2064	J0JCC0000059	Inductor Coil	
L2065	J0JCC0000059	Inductor Coil	
L2066	J0JCC0000059	Inductor Coil	
L2067	J0JCC0000059	Inductor Coil	
L2068	J0JCC0000059	Inductor Coil	
L2069	J0JCC0000059	Inductor Coil	
L2070	J0JCC0000059	Inductor Coil	
L2085	J0JCC0000059	Inductor Coil	
L2087	J0JCC0000059	Inductor Coil	
L2088	J0JCC0000059	Inductor Coil	
L2089	J0JCC0000059	Inductor Coil	
L2090	J0JCC0000059	Inductor Coil	
L2100	J0JCC0000059	Inductor Coil	
L2101	J0JCC0000059	Inductor Coil	
L2102	J0JCC0000059	Inductor Coil	
L2103	J0JCC0000059	Inductor Coil	
L2104	J0JCC0000059	Inductor Coil	
L2105	J0JCC0000059	Inductor Coil	
L2106	J0JCC0000059	Inductor Coil	
L2108	J0JCC0000059	Inductor Coil	
L2109	J0JCC0000059	Inductor Coil	
L2110	J0JCC0000059	Inductor Coil	
L2111	J0JCC0000059	Inductor Coil	
L2112	J0JCC0000059	Inductor Coil	
L2113	J0JCC0000059	Inductor Coil	
		DIODES	
D2005	B0JCPE000003	Diode	
D2006	B3AAB0000085	LED	
D2007	B3AAB0000085	LED	
D2008	B3AAB0000085	LED	
D2009	B3AAB0000085	LED	
		TRANSISTORS	
Q2002	PJVIDTC114EK	Transistor	
Q2003	B1DHGD000024	Transistor	
Q2004	B1GBCFLL0002	Transistor	
Q2005	B1GBCFLL0002	Transistor	
Q2006	B1GBCFLL0002	Transistor	
Q2007	B1GBCFLL0002	Transistor	
Q2008	B1GBCFLL0002	Transistor	
		ICs	
IC2000	C0CBABG00032	IC Regulator	
IC2005	C0CBAAG00022	IC Regulator	
IC2006	C3ABPG000134	IC D RAM	
IC2007	C3ABPG000134	IC D RAM	
IC2008	C3ABPG000134	IC D RAM	
IC2009	C0CBAAG00022	IC Regulator	
IC2010	C3ABPG000134	IC D RAM	
IC2011	C3ABPG000134	IC D RAM	
IC2012	C3ABPG000134	IC D RAM	
IC2018	C3ABQG000072	IC D RAM	
IC2019	C3ABQG000072	IC D RAM	
IC2020	C3ABQG000072	IC D RAM	
IC2021	C3ABQG000072	IC D RAM	
IC2022	H1Z8005B0005	Oscillator	
IC2023	H1Z9505B0003	Oscillator	
IC2024	H1Z1006B0003	Oscillator	
IC2025	C1ZBZ0002046	IC	
IC2026	SM530AYBD	IC	
IC2027	C0ZBZ0000950	IC	
IC2028	C0JBAZ001944	IC CMOS Logic	
IC2029	C1DB00001322	IC	
IC2030	C1DB00000424	IC	
IC2031	C1DB00000971	IC	
IC2032	C0JBAZ002076	IC CMOS Logic	
IC2033	C0JBAZ001411	IC CMOS Logic	
IC2034	C0JBAQ000171	IC CMOS Logic	
IC2045	C1ZBZ0002422	IC	
IC2046	C1ZBZ0002422	IC	
IC2047	C1ZBZ0002423	IC	
		OTHERS	
CN2000	K1KAE0BA0054	Connector	
CN2007	K1MMG8Z00002	Connector	
CN2008	K1FB150B0043	Connector	
CN2009	K1FA104B0028	Connector	
CN2010	K1KA10A00325	Connector	
SW2003	K0ZZ00000431	Switch	
X2000	H0J200200002	Oscillator	

15.3. DRIVE Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R4001	ERJ3GEYJ220	22 / J / (1/10W)	
R4002	ERJ3GEYJ220	22 / J / (1/10W)	
R4005	ERJ3GEYJ222	2.2K / J / (1/10W)	
R4007	ERJ3GEYJ392	3.9K / J / (1/10W)	
R4008	ERJ3GEYJ103	10K / J / (1/10W)	
R4016	ERJ3GEYJ103	10K / J / (1/10W)	

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Ref. No.	Part No.	Part Name & Description	Remarks
R4017	ERJ3GEYJ103	10K / J / (1/10W)	
R4018	ERJ3GEYJ103	10K / J / (1/10W)	
R4019	ERJ3GEYJ103	10K / J / (1/10W)	
R4021	ERJ3GEYJ220	22 / J / (1/10W)	
R4022	ERJ3GEYJ220	22 / J / (1/10W)	
R4024	ERJ3GEYJ220	22 / J / (1/10W)	
R4025	ERJ3GEYJ220	22 / J / (1/10W)	
R4027	ERJ3GEYJ121	120 / J / (1/10W)	
R4028	ERJ3GEYJ101	100 / J / (1/10W)	
R4029	ERJ3GEYJ121	120 / J / (1/10W)	
R4030	ERJ3GEYJ101	100 / J / (1/10W)	
R4033	ERJ3GEYJ220	22 / J / (1/10W)	
R4034	ERJ3GEYJ220	22 / J / (1/10W)	
R4036	ERJ3GEYJ220	22 / J / (1/10W)	
R4037	ERJ3GEYJ220	22 / J / (1/10W)	
R4039	ERJ3GEYJ220	22 / J / (1/10W)	
R4040	ERJ3GEYJ220	22 / J / (1/10W)	
R4042	ERJ3GEYJ220	22 / J / (1/10W)	
R4043	ERJ3GEYJ220	22 / J / (1/10W)	
R4045	ERJ3GEYJ220	22 / J / (1/10W)	
R4046	ERJ3GEYJ220	22 / J / (1/10W)	
R4051	ERJ3GEYJ220	22 / J / (1/10W)	
R4052	ERJ3GEYJ220	22 / J / (1/10W)	
R4054	ERJ3GEY0R00	0-ohm Jumper	
R4056	ERJ3GEYJ472	4.7K / J / (1/10W)	
R4057	ERJ3GEYJ472	4.7K / J / (1/10W)	
R4058	ERJ3GEYJ104	100K / J / (1/10W)	
R4059	ERJ3GEYJ104	100K / J / (1/10W)	
R4060	ERJ3GEYJ105	1000K / J / (1/10W)	
R4061	ERJ3GEYJ105	1000K / J / (1/10W)	
R4062	ERJ12RSJR10U	0.1 / J / (1/2W)	
R4063	ERJ12RSJR10U	0.1 / J / (1/2W)	
R4064	ERJ12RSJR10U	0.1 / J / (1/2W)	
R4065	ERJ12RSJR10U	0.1 / J / (1/2W)	
R4073	ERJ6ENF1051	1.05K / F / (1/10W)	
R4074	ERJ6ENF1242	12.4K / F / (1/10W)	
R4075	ERJ3GEY0R00	0-ohm Jumper	
R4077	ERJ3GEYJ100	10 / J / (1/10W)	
R4078	ERJ3GEYJ100	10 / J / (1/10W)	
R4079	ERJ3GEYJ100	10 / J / (1/10W)	
R4080	ERJ3GEYJ180	18 / J / (1/10W)	
R4081	ERJ3GEYJ180	18 / J / (1/10W)	
		CAPACITORS	
C4001	ECJ1VF1E104Z	0.1 / Z / 25V	
C4002	ECJ1VF1E104Z	0.1 / Z / 25V	
C4004	F2G1A1010013	100 / M / 10V	
C4005	F2G1A1010013	100 / M / 10V	
C4007	ECJ1VF1E104Z	0.1 / Z / 25V	
C4008	ECJ1VF1E104Z	0.1 / Z / 25V	
C4010	EEEFC1V101P	100 / M / 35V	
C4011	EEEFC1V101P	100 / M / 35V	
C4013	EEEFC1V101P	100 / M / 35V	
C4014	EEEFC1V101P	100 / M / 35V	
C4016	EEEFC1V101P	100 / M / 35V	
C4019	ECJ1VF1E104Z	0.1 / Z / 25V	
C4020	ECJ1VF1E104Z	0.1 / Z / 25V	
C4026	EEEFC1V101P	100 / M / 35V	
C4027	EEEFC1V101P	100 / M / 35V	
C4028	EEEFC1V101P	100 / M / 35V	
C4029	EEEFC1V101P	100 / M / 35V	
C4030	EEEFC1V101P	100 / M / 35V	
C4031	ECUX1H102KBV	1000P / K / 50V	
C4032	ECUX1H102KBV	1000P / K / 50V	
C4033	EEEFC1V101P	100 / M / 35V	
C4034	EEEFC1V101P	100 / M / 35V	
C4035	EEEFC1V101P	100 / M / 35V	
C4036	ECUX1H103KBV	0.01 / K / 50V	
C4037	ECUX1H103KBV	0.01 / K / 50V	
C4038	ECUX1H473ZFV	0.047 / Z / 50V	
C4039	ECUX1H473ZFV	0.047 / Z / 50V	
C4040	ECUX1H102KBV	1000P / K / 50V	
C4041	ECUX1H102KBV	1000P / K / 50V	
C4042	ECUX1H103KBV	0.01 / K / 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C4043	ECUX1H103KBV	0.01 / K / 50V	
C4044	EEEFC1V101P	100 / M / 35V	
C4050	EEFCD0K330R	33 / M / 8V	
C4051	EEFCD0K330R	33 / M / 8V	
C4052	ECUX1H102KBV	1000P / K / 50V	
C4053	EEEFC1C221P	220 / M / 16V	
C4054	EEEFC1C221P	220 / M / 16V	
C4056	ECJ1VC1H100D	10P / D / 50V	
C4057	ECUX1H102KBV	1000P / K / 50V	
C4058	ECUX1H102KBV	1000P / K / 50V	
C4059	ECUX1H101JCV	100P / J / 50V	
C4060	ECUX1H101JCV	100P / J / 50V	
C4061	ECJ1VC1H100D	10P / D / 50V	
C4062	ECJ1VC1H100D	10P / D / 50V	
C4063	ECUX1H103KBV	0.01 / K / 50V	
C4064	ECUX1H103KBV	0.01 / K / 50V	
C4065	ECJ1VF1E104Z	0.1 / Z / 25V	
C4066	ECUX1H102KBV	1000P / K / 50V	
C4067	ECUX1H102KBV	1000P / K / 50V	
C4074	ECUX1H102KBV	1000P / K / 50V	
C4075	ECUX1H102KBV	1000P / K / 50V	
C4076	ECUX1H102KBV	1000P / K / 50V	
		COILS	
L4001	J0JKC0000010	Core	
L4002	J0JKC0000010	Core	
L4003	G1A680H00002	Choke Coil	
L4004	G1A220H00010	Choke Coil	
L4005	G1A220H00010	Choke Coil	
		DIODES	
D4001	B0BC017A0028	Diode	
D4002	MA132A	Diode	
D4003	B0BC01200027	Diode	
D4004	MA132A	Diode	
D4005	B0BC01200027	Diode	
D4006	MA132A	Diode	
D4007	B0BC01500012	Diode	
D4008	MA132A	Diode	
D4009	B0BC5R000020	Diode	
D4010	MA132A	Diode	
D4011	C0DBZFA00021	Diode	
D4012	B0JCME000041	Diode	
D4013	MA132A	Diode	
D4014	MA132A	Diode	
D4015	B0JCME000041	Diode	
D4016	B0JCME000041	Diode	
		TRANSISTORS	
Q4003	B1GBCFLL0002	Transistor	
Q4005	B1GDCFJJ0002	Transistor	
Q4007	B1ABCF000011	Transistor	
Q4010	B1GBCFLL0002	Transistor	
Q4011	B1GBCFLL0002	Transistor	
Q4012	B1GBCFLL0002	Transistor	
Q4013	B1GBCFLL0002	Transistor	
Q4015	B1ABCF000011	Transistor	
Q4016	B1ABCF000011	Transistor	
Q4020	B1GBCFLL0002	Transistor	
Q4021	B1DHJG000005	Transistor	
Q4023	B1GBCFLL0002	Transistor	
Q4024	B1GDCFJJ0002	Transistor	
		ICs	
IC4001	C0GAN0000033	IC	
IC4002	C0GAN0000033	IC	
IC4004	C0DBAMG00014	ICDC-DC Converter	
IC4005	C0DBAHH00032	IC	
IC4006	C0DBAHH00032	IC	
		OTHERS	
CN4001	K1MN36A00014	Connector	
CN4003	K1KA10A00404	Connector	
CN4005	K1KA02A00553	Connector	
CN4007	K1KA13A00127	Connector	
CN4008	K1KA14A00233	Connector	
F4001	K5H402A00010	Fuse	
F4002	K5H402A00010	Fuse	

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15.4. CIS (F) RELAY Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R3000	ERJ3GEYJ221	220 / J / (1/10W) for KV-S3065CW Series	
R3001	ERJ3GEYJ221	220 / J / (1/10W) for KV-S3065CW Series	
R3002	ERJ3GEYJ221	220 / J / (1/10W) for KV-S3065CW Series	
R3003	ERJ3GEYJ221	220 / J / (1/10W) for KV-S3065CW Series	
R3004	ERJ3GEYJ221	220 / J / (1/10W)	
R3005	ERJ3GEYJ221	220 / J / (1/10W)	
R3006	ERJ3GEYJ221	220 / J / (1/10W)	
R3007	ERJ3GEYJ221	220 / J / (1/10W)	
R3008	ERJ3GEYJ221	220 / J / (1/10W)	
R3009	ERJ3GEYJ221	220 / J / (1/10W)	
R3010	ERJ3GEYJ221	220 / J / (1/10W)	
R3011	ERJ3GEYJ221	220 / J / (1/10W)	
R3012	ERJ3GEYJ221	220 / J / (1/10W)	
R3013	ERJ3GEYJ221	220 / J / (1/10W)	
R3014	ERJ3GEYJ221	220 / J / (1/10W)	
R3015	ERJ3GEYJ221	220 / J / (1/10W)	
		CAPACITORS	
C3000	ECEA1VKS100	10 / M / 35V	
C3001	ECEA1VKS100	10 / M / 35V	
C3002	ECUX1H101JCV	100P / J / 50V	
C3003	ECJ1VF1H104Z	0.1 / Z / 50V	
C3004	ECUX1H101JCV	100P / J / 50V	
C3005	ECJ1VF1H104Z	0.1 / Z / 50V	
C3006	ECUX1H101JCV	100P / J / 50V	
C3007	ECJ1VF1H104Z	0.1 / Z / 50V	
C3008	ECUX1H101JCV	100P / J / 50V	
C3009	ECJ1VF1H104Z	0.1 / Z / 50V	
		OTHERS	
CN3000	K1KA16A00195	Connector	
CN3001	K1KA32A00049	Connector	
CN3002	K1MN40AA0015	Connector for KV-S3065CW Series	
CN3003	K1MN34AA0015	Connector for KV-S3065CL Series	

15.5. CIS (B) RELAY Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R3016	ERJ3GEYJ221	220 / J / (1/10W)	
R3017	ERJ3GEYJ221	220 / J / (1/10W)	
R3018	ERJ3GEYJ221	220 / J / (1/10W)	
R3019	ERJ3GEYJ221	220 / J / (1/10W)	
R3020	ERJ3GEYJ221	220 / J / (1/10W)	
R3021	ERJ3GEYJ221	220 / J / (1/10W)	
R3022	ERJ3GEYJ221	220 / J / (1/10W)	
R3023	ERJ3GEYJ221	220 / J / (1/10W)	
R3024	ERJ3GEYJ221	220 / J / (1/10W)	
R3025	ERJ3GEYJ221	220 / J / (1/10W)	
R3026	ERJ3GEYJ221	220 / J / (1/10W) for KV-S3065CW Series	
R3027	ERJ3GEYJ221	220 / J / (1/10W) for KV-S3065CW Series	
R3028	ERJ3GEYJ221	220 / J / (1/10W) for KV-S3065CW Series	
R3029	ERJ3GEYJ221	220 / J / (1/10W) for KV-S3065CW Series	
R3030	ERJ3GEYJ101	100 / J / (1/10W) for KV-S3065CW Series	
R3031	ERJ3GEYJ221	220 / J / (1/10W)	
R3032	ERJ3GEYJ221	220 / J / (1/10W)	
		CAPACITORS	
C3010	ECEA1VKS100	10 / M / 35V	
C3011	ECEA1VKS100	10 / M / 35V	
C3012	ECUX1H101JCV	100P / J / 50V	
C3013	ECJ1VF1H104Z	0.1 / Z / 50V	
C3014	ECUX1H101JCV	100P / J / 50V	
C3015	ECJ1VF1H104Z	0.1 / Z / 50V	
C3016	ECUX1H101JCV	100P / J / 50V	
C3017	ECJ1VF1H104Z	0.1 / Z / 50V	
C3018	ECUX1H101JCV	100P / J / 50V	
C3019	ECJ1VF1H104Z	0.1 / Z / 50V	
		OTHERS	
CN3004	K1KA22AA0039	Connector	
CN3005	K1KA28A00031	Connector	
CN3006	K1MN40AA0015	Connector for KV-S3065CW Series	
CN3007	K1MN34AA0015	Connector for KV-S3065CL Series	

15.6. PANEL Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R5000	ERDS2TJ332	3.3K / J / (1/4W)	
R5002	ERDS2TJ182	1.8K / J / (1/4W)	
R5003	ERDS2TJ332	3.3K / J / (1/4W)	
R5004	ERDS2TJ103	10K / J / (1/4W)	
R5005	ERDS2TJ181	180 / J / (1/4W)	
R5006	ERDS2TJ391	390 / J / (1/4W)	
		CAPACITORS	
C5000	F1E1H1040017	Capacitor	
C5001	F1E1H1040017	Capacitor	
C5002	F1E1H103A097	0.01 / Z / 50V	
C5003	ECQV1H224JL	0.22 / J / 50V	
		DIODE	
D5000	B3AGA0000032	LED	
		TRANSISTORS	
Q5000	UN4213	Transistor	
Q5001	B1GCCFGJ0002	Transistor	
Q5002	UN4213	Transistor	
Q5003	B1GCCFGJ0002	Transistor	
Q5004	UN4213	Transistor	
		OTHERS	
CN5000	K1KA08B00238	Connector	
SW5000	B3F-6122	Switch	
BZ5000	L0DCEA000024	Buzzer	

15.7. POWER RELAY Board

Ref. No.	Part No.	Part Name & Description	Remarks
		OTHERS	
CN5001	K1KA02A00553	Connector	
CN5002	K1KA14A00233	Connector	
CN5003	K1KA04A00499	Connector	
CN5004	K1KA03A00465	Connector	
CN5005	K1KA06A00409	Connector	
CN5006	K1KA07A00242	Connector	
CN5008	K1KA06A00429	Connector	
CN5009	K1KA05A00350	Connector	
CN5032	K1KA34A00105	Connector	
CN5033	K1MN36A00014	Connector	
CN5034	K1KA04A00498	Connector	

15.8. POST IMPRINTER DOOR Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R5032	ERDS2TJ103	10K / J / (1/4W)	
R5034	ERDS2TJ331	330 / J / (1/4W)	
		CAPACITOR	
C5021	F1E1H1040017	Capacitor	
		TRANSISTOR	
Q5009	2SC3311A	Transistor	

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Ref. No.	Part No.	Part Name & Description	Remarks
		IC	
IC5004	B3NAA0000097	Photo Interrupter	
		OTHER	
CN5014	K1KA05A00350	Connector	

15.9. POINTER Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R5033	ERDS2TJ103	10K / J / (1/4W)	
R5035	ERDS2TJ331	330 / J / (1/4W)	
		CAPACITOR	
C5022	F1E1H1040017	Capacitor	
		TRANSISTOR	
Q5010	2SC3311A	Transistor	
		IC	
IC5005	B3NAA0000097	Photo Interrupter	
		OTHERS	
CN5013	K1KA06BA0008	Connector	
CN5017	K1KA04B00220	Connector	
CN5018	K1KA03B00194	Connector	

15.10. PAPER JAM SENSOR Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R5041	ERDS2TJ333	33K / J / (1/4W)	
R5044	ERDS2TJ271	270 / J / (1/4W)	
		CAPACITOR	
C5024	F1E1H1040017	Capacitor	
		TRANSISTOR	
Q5014	2SA1309A	Transistor	
		IC	
IC5009	B3NAB0000028	Photo Reflector	
		OTHERS	
CN5019	K1KA04A00498	Connector	
	PBHR38X	Spacer	

15.11. ENDING (REAR) Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R5042	ERDS2TJ333	33K / J / (1/4W)	
R5045	ERDS2TJ271	270 / J / (1/4W)	
		CAPACITOR	
C5025	F1E1H1040017	Capacitor	
		TRANSISTOR	
Q5015	2SA1309A	Transistor	
		IC	
IC5010	B3NAB0000028	Photo Reflector	
		OTHERS	
CN5020	K1KA03B00194	Connector	
	PBHR38X	Spacer	

15.12. RELAY (LOWER) Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R5007	ERDS2TJ751T	750 / J / (1/4W)	
R5008	ERDS2TJ152	1.5K / J / (1/4W)	
R5009	ERDS2TJ392	3.9K / J / (1/4W)	
R5010	ERDS2TJ102	1K / J / (1/4W)	
R5011	ERDS2TJ102	1K / J / (1/4W)	
R5012	ERDS2TJ153	15K / J / (1/4W)	
R5013	ERDS2TJ102	1K / J / (1/4W)	
R5014	ERDS2TJ473	47K / J / (1/4W)	
R5015	ERDS2TJ472	4.7K / J / (1/4W)	
R5016	ERDS2TJ472	4.7K / J / (1/4W)	
R5017	ERDS2TJ104	100K / J / (1/4W)	
R5018	ERDS2TJ473	47K / J / (1/4W)	
R5019	ERDS2T0	0-ohm Jumper	
R5020	ERDS2TJ123	12K / J / (1/4W)	
R5021	ERDS2TJ473	47K / J / (1/4W)	
R5022	ERDS2TJ472	4.7K / J / (1/4W)	
R5023	ERDS2TJ473	47K / J / (1/4W)	
R5024	ERDS2TJ472	4.7K / J / (1/4W)	
R5025	ERDS2TJ101	100 / J / (1/4W)	
R5026	ERDS2TJ101	100 / J / (1/4W)	
R5078	ERDS2T0	0-ohm Jumper	
		CAPACITORS	
C5004	ECEA1CKS101	100 / M / 16V	
C5005	F1E1H1040017	Capacitor	
C5006	ECEA1CKS101	100 / M / 16V	
C5007	F1E1H1040017	Capacitor	
C5008	ECQB1H103JF3	0.01 / J / 50V	
C5009	ECQB1H103JF3	0.01 / J / 50V	
C5010	ECQB1H103JF3	0.01 / J / 50V	
C5011	ECQB1H103JF3	0.01 / J / 50V	
C5012	ECQB1H103JF3	0.01 / J / 50V	
C5013	F1E1H1040017	Capacitor	
C5014	ECQB1H103JF3	0.01 / J / 50V	
C5015	ECQB1H103JF3	0.01 / J / 50V	
C5016	ECEA1CKS101	100 / M / 16V	
C5017	F1E1H1040017	Capacitor	
C5018	F1E1H1040017	Capacitor	
		DIODE	
D5001	MA165	Diode	
		TRANSISTORS	
Q5005	2SC3311A	Transistor	
Q5006	2SA1309A	Transistor	
		ICs	
IC5000	NJM2082D	IC Operational Amp.	
IC5001	C0AAAB000097	IC Operational Amp.	
		OTHERS	
CN5007	K1KA20BA0025	Connector	
CN5010	K1KA10BA0009	Connector	
CN5011	K1KA02BA0023	Connector	

15.13. HOPPER HOME Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R5028	ERDS2TJ103	10K / J / (1/4W)	
R5029	ERDS2TJ103	10K / J / (1/4W)	
R5030	ERDS2TJ331	330 / J / (1/4W)	
R5031	ERDS2TJ331	330 / J / (1/4W)	
		CAPACITORS	
C5019	F1E1H1040017	Capacitor	
C5020	F1E1H1040017	Capacitor	
		TRANSISTORS	
Q5007	2SC3311A	Transistor	
Q5008	2SC3311A	Transistor	
		ICs	
IC5002	B3NAA0000097	Photo Interrupter	
IC5003	B3NAA0000097	Photo Interrupter	
		OTHERS	
CN5012	K1KA10BA0009	Connector	
CN5015	K1MN08BA0003	Connector	

15.14. SIZE DETECTOR Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R5036	ERDS2TJ103	10K / J / (1/4W)	
R5037	ERDS2TJ331	330 / J / (1/4W)	
R5038	ERDS2TJ103	10K / J / (1/4W)	
R5039	ERDS2TJ331	330 / J / (1/4W)	
R5040	ERDS2TJ103	10K / J / (1/4W)	
R5043	ERDS2TJ331	330 / J / (1/4W)	

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Ref. No.	Part No.	Part Name & Description	Remarks
R5046	ERDS2TJ103	10K / J / (1/4W)	
R5047	ERDS2TJ331	330 / J / (1/4W)	
R5048	ERDS2TJ103	10K / J / (1/4W)	
R5049	ERDS2TJ331	330 / J / (1/4W)	
		CAPACITORS	
C5023	F1E1H1040017	Capacitor	
C5026	F1E1H1040017	Capacitor	
C5029	F1E1H1040017	Capacitor	
C5030	F1E1H1040017	Capacitor	
		TRANSISTORS	
Q5011	2SC3311A	Transistor	
Q5012	2SC3311A	Transistor	
Q5013	2SC3311A	Transistor	
Q5016	2SC3311A	Transistor	
Q5017	2SC3311A	Transistor	
		ICs	
IC5006	B3NAA0000097	Photo Interrupter	
IC5007	B3NAA0000097	Photo Interrupter	
IC5008	B3NAA0000097	Photo Interrupter	
IC5011	B3NAA0000097	Photo Interrupter	
IC5012	B3NAA0000097	Photo Interrupter	
		OTHERS	
CN5016	K1MN08BA0072	Connector	
CN5021	K1KA04B00220	Connector	

15.15. RELAY (UPPER) Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R5050	ERDS2TJ103	10K / J / (1/4W)	
R5051	ERDS2TJ102	1K / J / (1/4W)	
R5052	ERDS2TJ103	10K / J / (1/4W)	
R5053	ERDS2TJ102	1K / J / (1/4W)	
R5054	ERDS2TJ331	330 / J / (1/4W)	
R5055	ERDS2TJ102	1K / J / (1/4W)	
R5056	ERDS2TJ682	6.8K / J / (1/4W)	
R5057	ERDS2TJ472	4.7K / J / (1/4W)	
R5058	ERDS2TJ472	4.7K / J / (1/4W)	
R5059	ERDS2TJ821	820 / J / (1/4W)	
R5060	ERDS2TJ222	2.2K / J / (1/4W)	
R5063	ERDS2TJ473	47K / J / (1/4W)	
R5064	ERDS2TJ473	47K / J / (1/4W)	
R5065	ERDS2TJ472	4.7K / J / (1/4W)	
R5066	ERDS2TJ821	820 / J / (1/4W)	
R5068	ERDS2TJ222	2.2K / J / (1/4W)	
R5070	ERDS2TJ473	47K / J / (1/4W)	
R5071	ERDS2TJ473	47K / J / (1/4W)	
		CAPACITORS	
C5031	ECEA1VKS100	10 / M / 35V	
C5032	ECEA1CKS101	100 / M / 16V	
C5033	F1E1H1040017	Capacitor	
C5034	F1E1H1040017	Capacitor	
C5035	F1E1H1040017	Capacitor	
C5036	F1E1H1040017	Capacitor	
C5039	F1E1H103A097	0.01 / Z / 50V	
C5040	F1E1H1040017	Capacitor	
C5044	F1E1H103A097	0.01 / Z / 50V	
C5046	F1E1H1040017	Capacitor	
		TRANSISTORS	
Q5018	2SC3311A	Transistor	
Q5019	2SC3311A	Transistor	
Q5020	2SA1309A	Transistor	
Q5021	2SC3311A	Transistor	
Q5022	2SC3311A	Transistor	
Q5024	2SC3311A	Transistor	
Q5025	2SA1309A	Transistor	
Q5027	2SC3311A	Transistor	
Q5028	2SC3311A	Transistor	
Q5029	2SA1309A	Transistor	
		ICs	
IC5013	C0JAAB000109	IC	
IC5014	B3NAA0000097	Photo Interrupter	
		OTHERS	
CN5022	K1KA12A00324	Connector	
CN5023	K1KA05A00350	Connector	
CN5025	K1KA06A00429	Connector	
CN5026	K1KA04A00498	Connector	
CN5031	K1KA02A00552	Connector	

15.16. WAITING SENSOR Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R5074	ERDS2TJ333	33K / J / (1/4W)	
R5075	ERDS2TJ271	270 / J / (1/4W)	
R5076	ERDS2TJ333	33K / J / (1/4W)	
R5077	ERDS2TJ271	270 / J / (1/4W)	
		CAPACITORS	
C5047	F1E1H1040017	Capacitor	
C5049	F1E1H1040017	Capacitor	
		TRANSISTORS	
Q5031	2SA1309A	Transistor	
Q5032	2SA1309A	Transistor	
		ICs	
IC5018	B3NAB0000028	Photo Reflector	
IC5019	B3NAB0000028	Photo Reflector	
		OTHERS	
CN5027	K1KA06A00429	Connector	
CN5029	K1KA03A00465	Connector	
	PBHR38X	Spacer	

15.17. SKEW (R) Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R5067	ERDS2TJ333	33K / J / (1/4W)	
R5069	ERDS2TJ271	270 / J / (1/4W)	
		CAPACITOR	
C5041	F1E1H1040017	Capacitor	
		TRANSISTOR	
Q5026	2SA1309A	Transistor	
		IC	
IC5016	B3NAB0000028	Photo Reflector	
		OTHERS	
CN5030	K1KA03A00465	Connector	
	PBHR38X	Spacer	

15.18. STARTING SENSOR Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R5072	ERDS2TJ333	33K / J / (1/4W)	
R5073	ERDS2TJ271	270 / J / (1/4W)	
		CAPACITOR	
C5043	F1E1H1040017	Capacitor	
		TRANSISTOR	
Q5030	2SA1309A	Transistor	
		IC	
IC5017	B3NAB0000028	Photo Reflector	
		OTHERS	
CN5028	K1KA03AA0049	Connector	
	PBHR38X	Spacer	

15.19. ENDING (FRONT) Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R5061	ERDS2TJ333	33K / J / (1/4W)	
R5062	ERDS2TJ271	270 / J / (1/4W)	
		CAPACITOR	

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Ref. No.	Part No.	Part Name & Description	Remarks
C5037	F1E1H1040017	Capacitor	
		TRANSISTOR	
Q5023	2SA1309A	Transistor	
		IC	
IC5015	B3NAB0000028	Photo Reflector	
		OTHERS	
CN5024	K1KA05B00186	Connector	
	PBHR38X	Spacer	

15.20. POWER Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R801	ERDS1TJ684	680K / J / (1/2W)	
R802	MPC710.22K	Resistor	
R803	MPC710.1K	Resistor	
R804	ER0S2THF1803	180K / F / (1/4W)	
R805	ER0S2THF1803	180K / F / (1/4W)	
R806	ER0S2THF1803	180K / F / (1/4W)	
R807	ER0S2THF3161	3.16K / F / (1/4W)	
R808	ERDS2TJ124	120K / J / (1/4W)	
R809	ERDS2TJ124	120K / J / (1/4W)	
R810	ERDS2TJ223	22K / J / (1/4W)	
R811	ERDS2TJ242	2.4K / J / (1/4W)	
R812	ER0S2THF1803	180K / F / (1/4W)	
R813	ER0S2THF1803	180K / F / (1/4W)	
R814	ER0S2THF1803	180K / F / (1/4W)	
R815	ER0S2THF2151	2.15K / F / (1/4W)	
R816	ER0S2THF1803	180K / F / (1/4W)	
R817	ER0S2THF1803	180K / F / (1/4W)	
R818	ER0S2THF1803	180K / F / (1/4W)	
R819	ER0S2THF3161	3.16K / F / (1/4W)	
R820	ERDS2TJ103	10K / J / (1/4W)	
R821	ERDS2TJ105	1000K / J / (1/4W)	
R822	ERDS2TJ334	330K / J / (1/4W)	
R823	ERDS1TJ680	68 / J / (1/2W)	
R824	ERDS2TJ103	10K / J / (1/4W)	
R825	ERDS2TJ104	100K / J / (1/4W)	
R826	ERDS2TJ181	180 / J / (1/4W)	
R827	ERDS2TJ104	100K / J / (1/4W)	
R828	ERDS2TJ223	22K / J / (1/4W)	
R829	ERDS2TJ270	27 / J / (1/4W)	
R830	ERG2SJ104	100K / J / 2W	
R831	ERDS2TJ203	20K / J / (1/4W)	
R832	ERDS2TJ472	4.7K / J / (1/4W)	
R833	ER0S2THF1152	11.5K / F/ (1/4W)	
R834	ERDS2TJ101	100 / J / (1/4W)	
R835	ERDS2TJ104	100K / J / (1/4W)	
R836	ERDS2TJ821	820 / J / (1/4W)	
R841	ER0S2THF1001	1K / F/ (1/4W)	
R842	ER0S2THF8871	8.87K / F / (1/4W)	
R843	ERDS2TJ242	2.4K / J / (1/4W)	
R844	ERDS2TJ102	1K / J / (1/4W)	
R845	ERDS2TJ272	2.7K / J / (1/4W)	
R861	ERDS2TJ472	4.7K / J / (1/4W)	
R862	ERDS2TJ103	10K / J / (1/4W)	
R863	ERDS2TJ472	4.7K / J / (1/4W)	
R864	ERDS2TJ472	4.7K / J / (1/4W)	
R865	ERDS2TJ103	10K / J / (1/4W)	
R866	ERDS2TJ103	10K / J / (1/4W)	
R881	ERDS2TJ101	100 / J / (1/4W)	
R882	ERDS2TJ103	10K / J / (1/4W)	
R883	ERDS1TJ470	47 / J / 1/2W	
R884	ERDS2TJ242	2.4K / J / (1/4W)	
R885	ERDS2TJ472	4.7K / J / (1/4W)	
R886	ERDS2TJ101	100 / J / (1/4W)	
		CAPACITORS	
C801	ECQU2A684MLA	0.68 / M / 100V	⚠
C802	ECQU2A684MLA	0.68 / M / 100V	⚠
C803	PJCK25222MDT	2200P / M / 250V	⚠
C804	PJCK25222MDT	2200P / M / 250V	⚠
C805	ECQE2W474KC	0.47 / K / 450V	⚠
C806	ECQE4103KF3	0.01 / K / 400V	
C807	F2B2W2210007	220P/ M / 450V	⚠
C808	PJCK25472MDT	4700P / M / 50V	
C809	ECQB1H333JF3	0.033 / J / 50V	
C810	ECQB1H471JF	470P / J / 50V	
C811	F1D1H680A007	680P / J / 50V	
C812	ECQV1H104JL3	0.1 / J / 50V	
C813	ECQB1H333JF3	0.033 / J / 50V	
C814	PJCE1H100MCH	10P / M / 50V	
C815	ECQV1H104JL3	0.1 / J / 50V	
C816	F2A1V1010026	100 / 35V	
C817	ECQB1H471JF	470P / J / 50V	
C818	ECQB1H103JF3	0.01 / J / 50V	
C819	ECQB1H472JF3	4700P / J / 50V	
C820	ECQV1H104JL3	0.1 / J / 50V	
C821	F1D1H680A007	680P / J / 50V	
C822	F1B3F1220001	1200P / K / 3KV	
C823	F2A1V1010026	100 / 35V	
C824	ECQV1H104JL3	0.1 / J / 50V	
C825	ECQV1H104JL3	0.1 / J / 50V	
C826	ECQV1H104JL3	0.1 / J / 50V	
C841	F2A1V2220019	2200 / 35V	
C842	F2A1V2220019	2200 / 35V	
C843	F2A1V2220019	2200 / 35V	
C844	F2A1V2220019	2200 / 35V	
C845	ECQV1H104JL3	0.1 / J / 50V	
C881	PJCE1H100MCH	10P / M / 50V	
C882	PJCE1H100MCH	10P / M / 50V	
		COILS	
L801	ELF18D850C	Line Filter	⚠
L802	ELF18D850C	Line Filter	⚠
L803	G0A941J00001	Coil	⚠
L841	G0A6R8K00004	Coil	
		DIODES	
D801	B0FBBR000037	Diode	
D802	B0HARR000018	Diode	⚠
D803	B0EALR000009	Diode	
D804	B0EAEM000001	Diode	
D805	B0EAEM000001	Diode	
D806	ERA83004AVRB	Diode	
D807	B0BA7R4A0036	Diode	
D808	B0EAEM000001	Diode	
D809	B0EAEM000001	Diode	
D810	B0EAEM000001	Diode	
D811	B0EAEM000001	Diode	
D812	B0HAMV000022	Diode	
D813	B0HAMV000022	Diode	
D814	B0EAEM000001	Diode	
D815	B0BA026A0038	Diode	
D816	B0BA026A0038	Diode	
D817	B0BA026A0038	Diode	
D841	B0JBSL000016	Diode	
D861	B0BA012A0037	Diode	
D881	MA165	Diode	
D882	B0BA026A0038	Diode	
D883	MA165	Diode	
D884	B0EAEM000001	Diode	
D886	MA165	Diode	
D887	MA165	Diode	
D888	B0BA5R0A0034	Diode	
		TRANSISTORS	
Q801	B1DEGR000022	Transistor	⚠
Q802	B1GCCFGJ0002	Transistor	
Q803	UNR421200A	Transistor	
Q804	2SC3311A	Transistor	
Q806	UNR421200A	Transistor	
Q807	2SA1309A	Transistor	
Q861	B1GCCFGJ0002	Transistor	
Q862	UNR421200A	Transistor	
Q863	UNR421200A	Transistor	
Q864	UNR421200A	Transistor	
Q865	B1ACNL000002	Transistor	
Q881	2SC3311A	Transistor	

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Ref. No.	Part No.	Part Name & Description	Remarks
		ICs	
IC801	C0DABZG00001	IC	⚠
IC802	C0DACZH00025	IC	
IC803	B3PAA0000261	Photo Isolator	⚠
IC804	B3PAA0000261	Photo Isolator	⚠
IC805	B3PAA0000261	Photo Isolator	⚠
IC807	C0DAEZC00003	IC	
IC841	C0DAEZC00003	IC	
		OTHERS	
CN801	K1KA02A00593	Connector	
CN802	K1KA10A00404	Connector	
CN803	K1KA03AA0054	Connector	
T801	G4D4A0000077	Switching Trans	⚠
TH801	D4CAD5R00004	Thermistor	⚠
TH802	D4CAD5R00004	Thermistor	⚠
ZNR801	D4EAA4710001	Varistor	
F801	K5Y402B00002	Fuse 250V	⚠
F841	XBA2C63TB15L	Fuse 250V	⚠
SHEET1	FA-35-9051	Insulator Sheet	
SHEET2	FA35-37X38	Insulator Sheet	
FH1	K3GE1BB00001	Fuse Holder	
FH2	K3GE1BB00001	Fuse Holder	
FH3	K3GE1BB00001	Fuse Holder	
FH4	K3GE1BB00001	Fuse Holder	
	PJMYB0012Y	Heat Sink	
	PJMYC0001Z	Heat Sink	
	XTN3+8JFJ	Screw	
	XTW3+10SFJ	Screw	
	XTW3+U8SFJ	Screw	

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Order Number KM70702246SE
Category Number G14

Service Manual

High Speed Color Scanner

KV-S3065CLSERIES
KV-S3065CWSERIES

Supplement - 2

Subject : Addition and Modification

Please file and use this supplement manual together with the following manuals.
1. Original Service Manual for KV-S3065CL / S3065CW SERIES (Order No.: KM70410959C0)
2. Supplement-1 Manual for KV-S3065CL / S3065CW SERIES (Order No.: KM70503993SE)

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 TOPICS OF MAIN CHANGED CONTENTS

Remarks

Important level codes and Reason codes for the following changed contents

1. Important level codes
 - A: High
 - B: Middle
 - C: Low
2. Reason Codes
 - (1) Change Spec. (Product Number, Engineering change, and others)
 - (2) Add information on Products KV-S3065CL / S3065CW Series
 - (3) Correction

Section No. (Original Service Manual)	Contents	Reference Section on this supplement	Remarks
2	1. Change the power consumption on the Sleep Mode 2. Correct the value of the Operating Humidity 3. Add Note for the “Option”	2. “SECTION 2 SPECFICATIONS”	B-(2)
4	1. Version up OS environment on USB Connection Windows® XP SP1 → Windows® XP SP2	3. “SECTION 4 INSTALLATION”	B-(1)
9	1. Version up Main Menu (to ver.4.2) (1) Add **“CIS Focus”** operation on the “Test” part (2) Add **“Feed Speed”** operation on the “Adjust” part (3) Change **“Sleep Mode”** setting on the “Scanner Condition” part (4) Change the effective contents set to the default 2. Change status messages on the top of the main menu	4. “SECTION 9 SERVICE UTILITY & SELF TEST”	A-(1)
14	1. Change part numbers for mechanical parts	5. “SECTION14 PARTS LOCATION AND MECHANICAL PARTS LIST”	A-(1)
15	1. Change part numbers for electrical parts	6. “SECTION15 REPLACEMENT PARTS LIST”	A-(1)

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2 “SECTION 2 SPECIFICATIONS”

Item			Model No.	
			KV-S3065CL Series*1	KV-S3065CW Series*2
Scanner	Scanning face		Duplex	
	Scanning method		CIS (Contact-type color Image Sensor): Front & Back sides	
	Scanning Width		227 mm (9.0 in.)	302 mm (11.9 in.)
	Readout speed		Black & White: 60 ppm/100 ipm (A4, 200 dpi, Portrait) 65 ppm/120 ipm (Letter, 200 dpi, Portrait) Color: 60 ppm/100 ipm (A4, 200 dpi, Portrait) 65 ppm/120 ipm (Letter, 200 dpi, Portrait)	
	Resolution		Main scanning direction: 100 - 600 dpi (1 dpi step) Sub-scanning direction: 100-600 dpi (1 dpi step) Optical resolution is 600 dpi.	
	Image output		Binary, Grayscale, Color, *5MultiStream™ (Binary and Color, Binary and Grayscale)	
	Tonal gradation		Dither (64 step gradation), Error diffusion (64 step gradation), Grayscale (8bit), Color (24 bit)	
	Image control		Image emphasis, Dynamic threshold, Automatic separation, Multi-Color dropout, Mirror Image, Noise reduction	
	Other functions		Patch code detection (Kodak patch 2,3,T, Control sheet), Double feed detection	
	Paper	Size	48 x 70 mm (1.9 x 2.8 in.) to 297 x 431 mm (11.7 x 17 in.)	48 x 70 mm (1.9 x 2.8 in.) to 297 x 431 mm (11.7 x 17 in.)
		Thickness	0.05 to 0.2 mm (2.0 to 5.9 mils) **Note: 1 mil = 1 / 1000 in.**	
		Weight	40 to 157 g/m^2 (10.7 to 41.9 lb.) **Note: 1 lb.= 3.75 g/m^2**	
		Detection	Empty, Size, Jam, and Double-feed detection	
	Interface		SCSI Ⅲ (20 MB/s, 50 pins half type) or USB 2.0 (Connector type: B)	
	Hopper capacity		Letter/A4 or less (Portrait): 300 sheets [64 g/m^2 (17.1 lb.)]	
			Wider than Letter/A4 (Portrait): 200 sheets [64 g/m^2 (17.1 lb.)]	
Unit	External dimensions (Width x Depth x Height)		495 x 575 x 288 mm (19.5 x 22.7 x 11.4 in.) **Note: When the ADF Door is open, height is 505 mm (19.9 in.).**	
	Weight		24 kg (53 lbs.)	
	Power requirement		AC100-120 V, 50 / 60 Hz*3 AC220-240 V, 50 / 60 Hz*4	
	Power consumption	Maximum (Scanning)	1.4 A *3	
			0.6 A *4	
		Minimum (Standby)	0.6 A *3	
			0.3 A *4	
		Sleep mode	***3 6.2 W or less**	
			***4 6.2 W or less**	
Environment	Operating temperature and Humidity		Temperature: 15 °C to 30 °C (59 °F to 86 °F) Humidity: ***20 %*** to 80 %RH	
	Storage temperature and Humidity		Temperature: 0 °C to 35 °C (32 °F to 95 °F) Humidity: 10 % to 80 %RH	
Accessories			Installation manual, Maintenance manual, AC cord, USB cable, Blower, Cleaning paper, Shading paper, CD [ISIS Driver, TWAIN Driver, Capture software (RTIV), Operation manual, P.I.E. manual, RTIV manual, Control sheet images, User Utility, User Utility Manual]	
PbF (Pb Free)			Applied to PCB assemblies CONTROL, INTERFACE, PANEL, DRIVE, POWER, SIZE DETECTOR, HOPPER HOME, RELAY (LOWER), SKEW (R), WAITING SENSOR, STARTING SENSOR, ENDING (FRONT) SENSOR, RELAY (UPPER), PAPER JAM SENSOR, ENDING (REAR) SENSOR, POINTER, POST IMPRINTER DOOR, POWER RELAY, CIS (F) RELAY, CIS (B) RELAY Boards for KV-S3065CL Series and KV-S3065CW Series **Note: Distinction of PbF PCB** **PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.**	
Option			***6** Roller Exchange Kit (standard): KV-SS017 ***6** Roller Exchange Kit (for thin paper): KV-SS018 ***6** Roller Cleaning Paper (KV-SS03) ***6** Imprinter (KV-SS014) ***6** Ink Cartridge (KV-SS021)	

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Note:

[*1]: KV-S3065CL Series

KV-S3065CL: For U.S.A.
KV-S3065CL-U: For Europe
KV-S3065CL-A: For Australia
KV-S3065CL-T: For Taiwan

SERIAL No. shown on the name plate on each scanner will distinguish the destinations for each area as follows.

1. **SERIAL No. for U.S.A. → 802 xxxx xxxx**
2. **SERIAL No. for Europe→ 803 xxxx xxxx**
3. **SERIAL No. for Australia → 804 xxxx xxxx**
4. **SERIAL No. for Taiwan → 805 xxxx xxxx**

(x: Don't care)

KV-S3065CLCN: For China
SERIAL No. for China→ 806 xxxx xxxx
(x: Don't care)

[*2]: KV-S3065CW Series

KV-S3065CW: For U.S.A.
KV-S3065CW-U: For Europe
KV-S3065CW-A: For Australia
KV-S3065CW-T: For Taiwan

SERIAL No. shown on the name plate on each scanner will distinguish the destinations for each area as follows.

1. **SERIAL No. for U.S.A. → 747 xxxx xxxx**
2. **SERIAL No. for Europe→ 797 xxxx xxxx**
3. **SERIAL No. for Australia → 798 xxxx xxxx**
4. **SERIAL No. for Taiwan → 799 xxxx xxxx**

(x: Don't care)

KV-S3065CWCN: for China
SERIAL No. for China→ 800 xxxx xxxx
(x: Don't care)

[*3]: Applied to KV-S3065CL/S3065CW (For U.S.A. and other countries where power supply (AC100 to AC120 V) is applied except for Taiwan) and KV-S3065CL-T/S3065CW-T

[*4]: Applied to KV-S3065CL-U/S3065CW-U (For Europe and other countries where power supply (AC220 to AC240 V) is applied except for Australia and China), KV-S3065CL-A/S3065CW-A, and KV-S3065CLCN/S3065CWCN

[*5]: MultiStream is TM of Pixel Translations (a division of Action point Inc.)

[*6]: KV-SSxxx (All area except for China)
KV-SSxxx-CN (Only for China)
(xxx: 017, 018, 03, 014, or 021)

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3 “SECTION 4 INSTALLATION

3.1. “Section 4.7 System Requirements”

When using the scanner, the required personal computer conditions are as follows.

		SCSI Connection	USB Connection
CPU		Minimum: Pentium Ⅲ , 1 GHz Recommended: Pentium4, 2 GHz or higher	
Memory		Minimum: 256MB Recommended: 512MB or more	
OS		Windows® 98 Windows NT® 4.0 Windows® 2000 Windows® Me Windows® XP	Windows® 98 SE Windows® 2000 SP4 Windows® Me ***Windows® XP SP2***
Display	**Resolution**	1,024x768 dots or more	
	Colors	65,536 colors or more	
Interface		SCSI Ⅲ Recommended SCSI board Adaptec SCSI Board (2930U / 2940U / 29160N / 19160)	USB 2.0

Note 1:

1. **This system requires 1 GB free space of HDD in the personal computer at least.**
2. **Color images larger than A3 size cannot be scanned at 600 dpi on Windows 98 or Windows Me.**
 A large color image may not be scanned in high resolution depending on a computer system or application.
3. **The scanning speed differs depending on the personal computer’s operating environment or application.**
4. **Be sure to connect the scanner directly to the USB interface port on PC.**
 We cannot guarantee that the scanner will work properly if it is connected to a USB hub.
5. **A daisy-chain connection to the SCSI interface may reduce the scanning speed.**
6. **When using Windows NT, be sure to install the ASPI layer software that the SCSI Board’s vender provides.**

Note 2

- **Windows® 98 is Microsoft® Windows® 98 operating system.**
- **Windows® Me is Microsoft® Windows® Me operating system.**
- **Windows NT® is Microsoft® Windows NT® operating system.**
- **Windows® 2000 is Microsoft® Windows® 2000 operating system.**
- **Windows® XP is Microsoft® Windows® XP operating system.**
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4 “SECTION 9 SERVICE UTILITY & SELF TEST”

4.1. “Section 9.1 Main menu indication for Service Utility”

This section describes the functions of the service utility software, such as adjustments, diagnosis, configuration, and maintenance.

This utility software also includes a user utility function.

Executing “Service Utility.exe” (without installing the software to the PC except for ASPI Manager) will allow you to operate all the functions found in this service utility software.

Note:

- **This utility software is not included with the scanner.**

 Please call service or technical support to find out how to obtain the service utility software.

- **This software should be used only by an authorized service technician.**
 Improper use of this software may cause damage to the scanner.

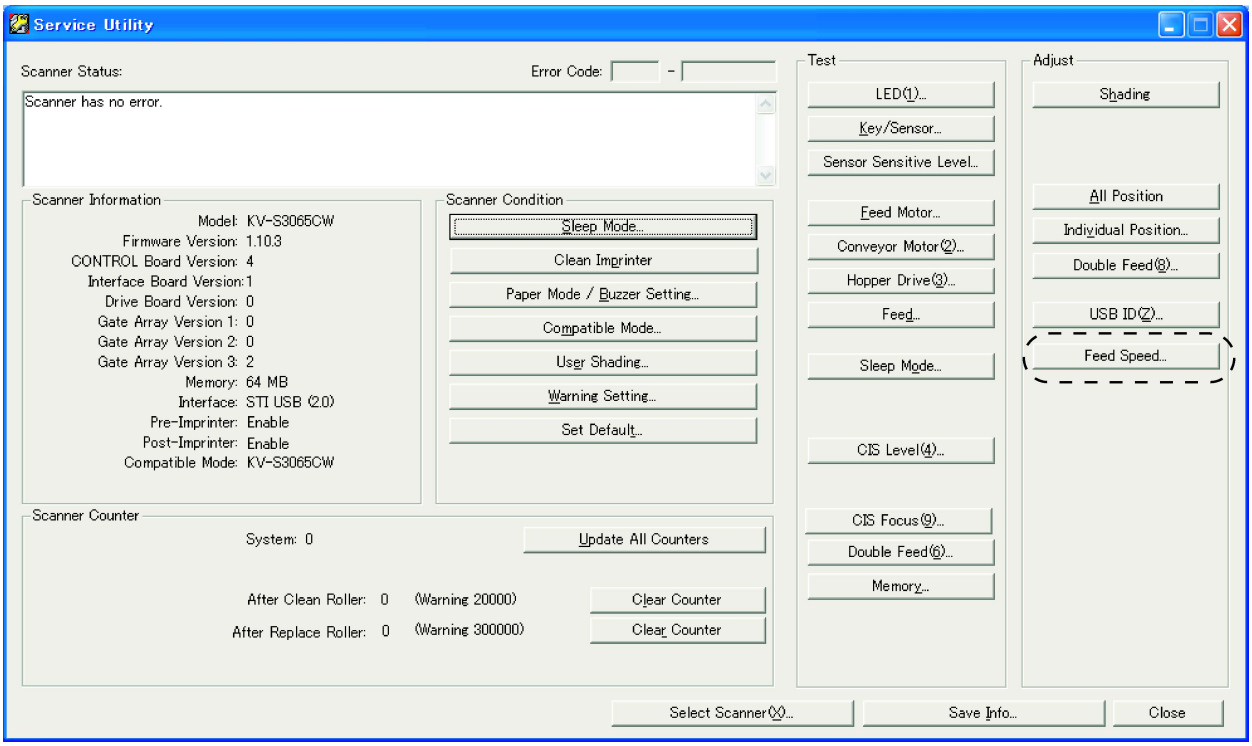


***Fig. 9.1 Main Menu**

***Note:**

- **This is a main menu sample (Fig. 9.1) of the Service Utility software (Version *4.2*).**
- **This software is the latest version at the time when this service manual is issued, but it is subject to change without notice.**

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4.2. “Section 9.2 Function item list of Service Utility”

Service Utility item list is as follows.

Note:

When two or more scanners are connected to PC, execute “Select Scanner” to define the scanner before evaluating.

The procedure is as follows.

1. **Click “Select Scanner” on the Main Menu.**
2. **Select the product number and interface of the scanner to evaluate.**

Item		Purpose	Remarks
Scanner Status		To indicate scanner status (Ready, Error, or Warning)	(2)
Scanner Information		To indicate scanner information about Model, firmware version, Gate Array version, board revision, additional memory size (status), and interface condition	(2)
Scanner Counter	Update All ***Counters***	To update the values of System Counter, Cleaning roller Counter, and Replacing roller Counter	(1), (6)
	Clear Counter for cleaning roller	To clear Counter for cleaning roller to zero after cleaning roller	(1), (6)
	Clear Counter for replacing roller	To clear Counter for replacing roller to zero after replacing roller	(1), (6)
Scanner Condition	Sleep Mode	***To set “Waiting Time” before entering to the sleep mode***	(1)
	***1**Clean Imprinter	To clean an ink jet head of imprinter	(1), (6)
	Paper Mode / Buzzer Setting	To set scanning size (A4 or Letter) when the Document Guide is in A4 position, and to set Buzzer ON/OFF condition.	(1)
	Compatible Mode	To make this scanner operate as another scanner with this mode	(1), (3)
	User Shading	To execute shading correction at the user side, or to restore the shading data to the default (Factory-setting)	(4)
	Warning Setting	To set warning timing to clean roller and to replace roller	(3)
	Set Default	***To set “sleep mode setting“, “warning timing to clean and to replace roller”, and “feed speed” to the default***	(3)
Test	LED	To light LED on the front cover with colors changing periodically (Green→ Orange→ Red→Green→ Orange.....)	(5)
	Key / Sensor	To do Key or Sensor ON / OFF test	(5)
	Sensor Sensitive Level	To check sensitive level of each sensor (Waiting, Starting, Skew (R), Skew (L), Ending (Front), Ending (Rear), Paper Jam)	(5)
	Feed Motor	To check Paper Feed Motor’s Rotating	(5)
	Conveyor Motor	To check Conveyor Motor’s Rotating	(5)
	Hopper Drive	To check the hopper’s Up/Down Mechanism	(5)
	Feed	To check paper feed condition	(5)
	Sleep Mode	To check whether sleep mode function works properly	(5)
	CIS Level	To check maximum peak level after setting gain	(5)
	CIS Focus	To check whether CIS focus point is appropriate to scan documents and to adjust the focus, showing a CIS gray density level on the display	(5)
	Double Feed	To check the Double Feed Detector (R)’s level (Response level) after setting the ultrasonic sending level and frequency of the Double Feed Detector (G)	(5)
	Memory	To execute memory R/W test	(5)
Adjust	Shading	To execute shading correction	(4)
	All Position	To adjust scanning length, vertical, and horizontal positions for front and back sides, automatically	(4)
	Individual Position	1. To execute automatic length, vertical or horizontal position adjustment for front and back sides, individually 2. To adjust scanning length, vertical and horizontal positions for front and back sides, manually	(4)
	Double Feed	To correct the Double Feed detector’s ultrasonic sending level and frequency automatically or manually	(4)
	USB ID	To set a USB ID for the scanner, connected to PC	(3)
	2 Feed Speed	***To change the paper feed speed***	***(4)***
Other (USB ID. Save Information)	Save Information	To save scanner and PC information	(1)

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Note:

[*1]: This item is available only when the optional Imprinter is installed to the scanner "KV-S3065CL/S3065CW Series".

[*2]: Firmware Version 1.10 or later will enable this function. (With the Version 1.00 or older, clicking "Feed Speed"on the main menu causes an error message.)

Remarks

(1) Parameter setting by user
(2) Status indication
(3) Parameter setting by service person
(4) Adjustment
(5) Diag.
(6) Maintenance

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4.3. “Section 9.3 Operation”

This section describes each operation (or status indication), according to the function item list shown in Sec.9.2.

4.3.1. “Section 9.3.1 Scanner Status”

This function indicates scanner status, updating it every few seconds.
The status messages and its contents are as follows.

Classified Code	Status Message	Contents
—	Scanner has no error.	No error
U11, U12, U13, U14, U15, U16, U17	***A paper jam has occurred. Open the scanner’s door, remove the documents, and close the cover. Place the documents back in the document feed tray.***	U11: Paper feed Jam U12: Conveyor jam1 (Paper did not reach the Starting Sensor) U13:Conveyor jam2 (Paper did not reach the Paper Jam Sensor) U14: Conveyor jam3 (Paper did not reach the Ending (Front) Sensor.) U15: Conveyor jam 4 (Paper did not reach the Ending (Rear) Sensor.) U16: Exit jam 1 (Paper did not go out of the Ending (Front) Sensor throughout) U17: Exit Jam2 (Paper did not go out of the Ending (Rear) Sensor throughout)
U18	***Paper remains in the scanner. Open the scanner’s door, remove the documents, and close the cover. Place the documents back in the document feed tray.***	Document remains in the scanner, or dust is attached around a sensor.
U20	***A skew error has occurred. Open the scanner’s door, remove the documents, and close the cover. Place the documents back in the document feed tray.***	Skew error
U23	***A paper double feed has occurred. Open the scanner’s door, remove the documents, and close the cover. Place the documents back in the document feed tray.***	Double feed error
U30	Scanner Door is open! Please close the door.	Front Door is open.
U32	Scanner Door is open! Please close the door.	Post-imprinter Door is open.
U34	Scanner Door is open! Please close the door.	Pre-imprinter Door is open.
Fxx	System error occurred! Please consult with a service representative.	Service-person call level error occurred.
—	*** Warning*** The rollers need to be cleaned. Please clean the rollers. Please select Clear Counter button after cleaning rollers.	Warning for cleaning rollers.
—	***Warning*** The replaceable rollers (consumable) are close to reaching their usable life. To insure reliable operation, please replace these rollers with Roller Exchange Kit for your specific scanner. After replacing the rollers, select the “Clear Counter” button.***	Warning for replacing rollers.
—	***Warning*** Insufficient front light error occurred. The lamp and/or scanning sensor need to be replaced.	1. The lamp have reached its life expectancy. 2. Lamp drive circuit for the front does not work properly.
—	***Warning*** Insufficient back light error occurred. The lamp and/or scanning sensor need to be replaced.	1. The lamp have reached its life expectancy. 2. Lamp drive circuit for the back does not work properly.
—	***Warning*** The scanner’s image sensor cover is dirty and requires routine cleaning. To insure reliable scanning quality, open the scanner’s door and carefully clean the scanner’s image sensor cover.***	The surface of Image Sensor Cover is dirty.
—	Scanner is not connected!	Scanner is not connected to PC properly.

Fig. 9.3.1 Scanner Status

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4.3.2. "Section 9.3.5 Scanner Condition"

Item	Operation	Default	Remarks
Sleep Mode	1. Click **"Sleep Mode"** on the main menu (Service Utility). ***2. Set "Waiting Time" (minutes) to change sleep mode.*** ***3. Click "OK" to renew the setting.***	***15 minutes***	When returning back to the Ready Mode from the Sleep Mode, execute **"Sleep Mode"** for Test (9.3.6) on the main menu, and then click **"STOP"** on the **"Sleep Mode"** dialog box.
Clear Imprinter	1. Click **"Clean Imprinter"** on the main menu to clean an ink jet head to print.	—	***This item is available only when the optional Imprinter is installed to the scanner.***
Paper Mode / Buzzer Setting	1. Click **"Paper Mode / Buzzer Setting"** on the main menu. 2. Set **"Paper Mode (A4 or Letter)"** and/or **"Buzzer Setting (ON or OFF)"** on **"Paper Mode / Buzzer Setting"** dialog box. 3. Click **"OK"** to renew the setting.		
Compatible Mode	1. Click **"Compatible Mode"** on the main menu. 2. Set a model number to operate the scanner as the emulation mode on **"Compatible Mode"** dialog box. 3. Click **"OK"** to renew the setting.		
User Shading	1. Click **"User Shading"** on the main menu. 2. Push **"Start Shading"** or **"Restore Default"** on **"User Shading"** dialog box. **Note:** **a. When selecting "Restore Default", the factory-setting data will be overwritten in stead of the current shading data.** **b. The following procedures "3" or more are available only for selecting "Start Shading".** 3. Clean the conveyor, rollers, and Image Sensor Covers according to the message on the display. And click **"OK"**. 4. Switch Reference Plates to white according to the message on the display. And click **"OK"**. 5. Set the accessory Shading Paper or Shading Paper (Part No.: See 14.7.) on the Hopper Tray in the following orientation. (1) In case of KV-S3065CW → Landscape orientation (2) In case of KV-S3065CL → Portrait orientation And click **"OK"**. 6. Scan the Shading Paper. 7. Switch the Reference Plates to black according to the message on the display. And click **"OK"**. 8. Click **"OK"** to get back to the main menu.		1. Before executing the shading function, be sure to clean Image Sensor Covers, rollers, and conveyors related to convey documents. 2. Do not stop the shading execution on its way and do not open any doors.
Warning Setting	1. Click **"Warning Setting"** on the main menu. 2. Change the parameter on **"Warning Setting"** dialog box. 3. Click **"OK"** to renew the setting.	Clean: 20000 Replace: 300000	
Set Default	1. Click **"Set Default"** on the main menu. ***2. Click "Set Default" on the "Set Default" dialog box to set "Sleep Mode", "Warning Setting", and "Feed Speed" to the default.*** 3. Click **"Close"** to get back to the main menu.	—	

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4.3.3. “Section 9.3.7 Adjust”

Item	Operation	Default	Remarks
* USB ID	1. Click **“USB ID”** on the main menu to enter in the **“USB ID”** dialog box. 2. Click **“Set”** on the **“USB ID”** dialog box to store a new ID number for a new replaced CONTROL Board. 3. Click **“Close”** to get back to the main menu.	—	*This setting is available only for a new replaced CONTROL Board.
1Feed Speed	***1. Click “Feed Speed” on the main menu.*** ***2. Change the parameter (PPS: 300 to 800).*** ***3. Click “OK” to renew the setting, and to get back to the main menu.*** ***Note:*** ***This slow thin-paper feed may reduce a paper-jam or a double-feed.***	***800***	***-: Decreasing the number makes document feed speed slower.***

Note:

****1: Firmware Version 1.10 or later will enable this function. (With the Version 1.00 or older, clicking "Feed Speed"on the main menu causes an error message.)***

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5 “SECTION 14 PARTS LOCATION AND MECHANICAL PARTS LIST”

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer’s specified parts.

Note: RTL (Retention Time Limited)
The mark (RTL) indicates that the Retention Time is limited for this item. After the discontinuations of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Note: TSCA (Toxic Substance Control Act)
The marking (TSCA) in the Remark column indicates that the part shown in the column consist of the substances which are included in TSCA inventory.

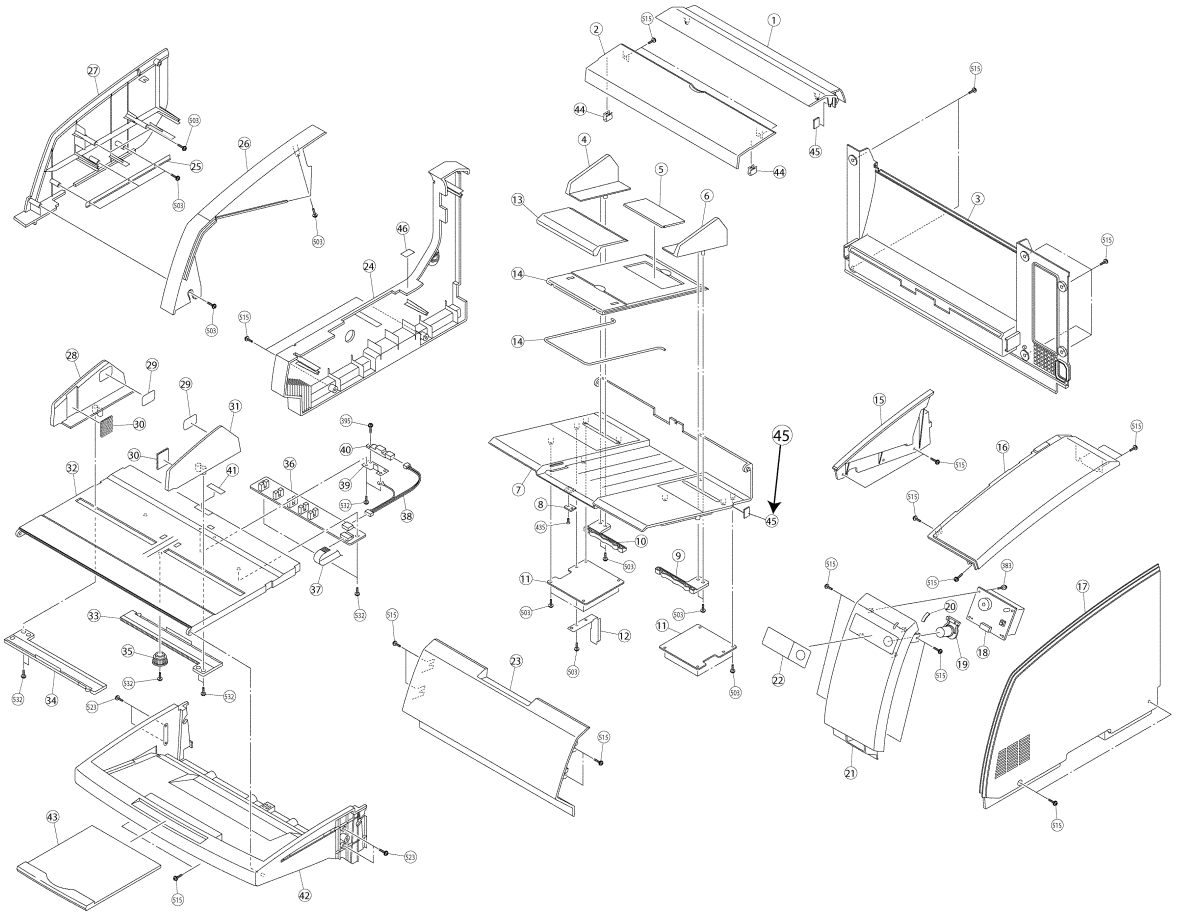
Note: PbF (Pb Free)
"PbF" in the Remark column means Pb Free solder is used to assemble parts on the PCB assembly.

Note: Interchangeability Indication
Marks A-G in the Code Column indicate the interchangeability. See following table for details.

A	Original parts → Early New parts → Late production		Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.
B	Original parts → Early New parts → Late production		Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
C	Original parts → Early New parts → Late production		New parts only may be used in early or late production sets. Stock new parts.
D	Original parts → Early New parts → Late production		Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E			Addition
F			Deletion
G			Correction

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5.1. “Section 14.1 Exterior”



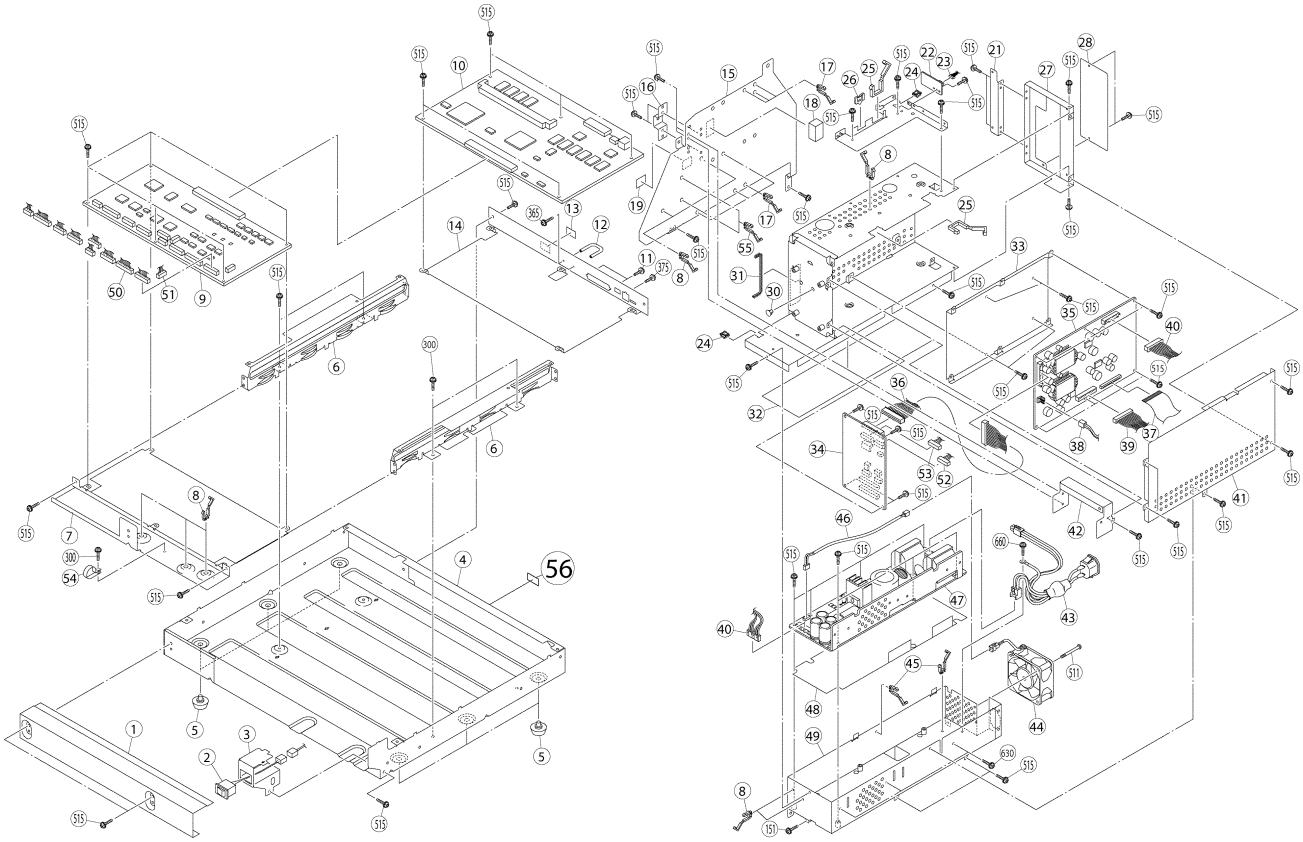
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Replacement Mechanical Parts List (Exterior)

Ref.No.	Part No.		Code	Part Name & Description	Remarks
	Original	New			
3	PBKMA0044X-J	PBKMA044X-J1	D	Rear Panel (Except for China)	⚠
3	PBKMA0044X-J	PBKMA44X-CHI	B	Rear Panel (Only for China)	⚠
22	PJGEC0011Z	PJGEC0011Y	C	Panel Sheet	
23	PBKMA0038V	PBKMA0038U	C	Feed Unit Cover	
45	PJHEC0069Z	PJHEC0069Z	C	Black Sheet	

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5.2. “Section 14.2 Board Box Unit and others”



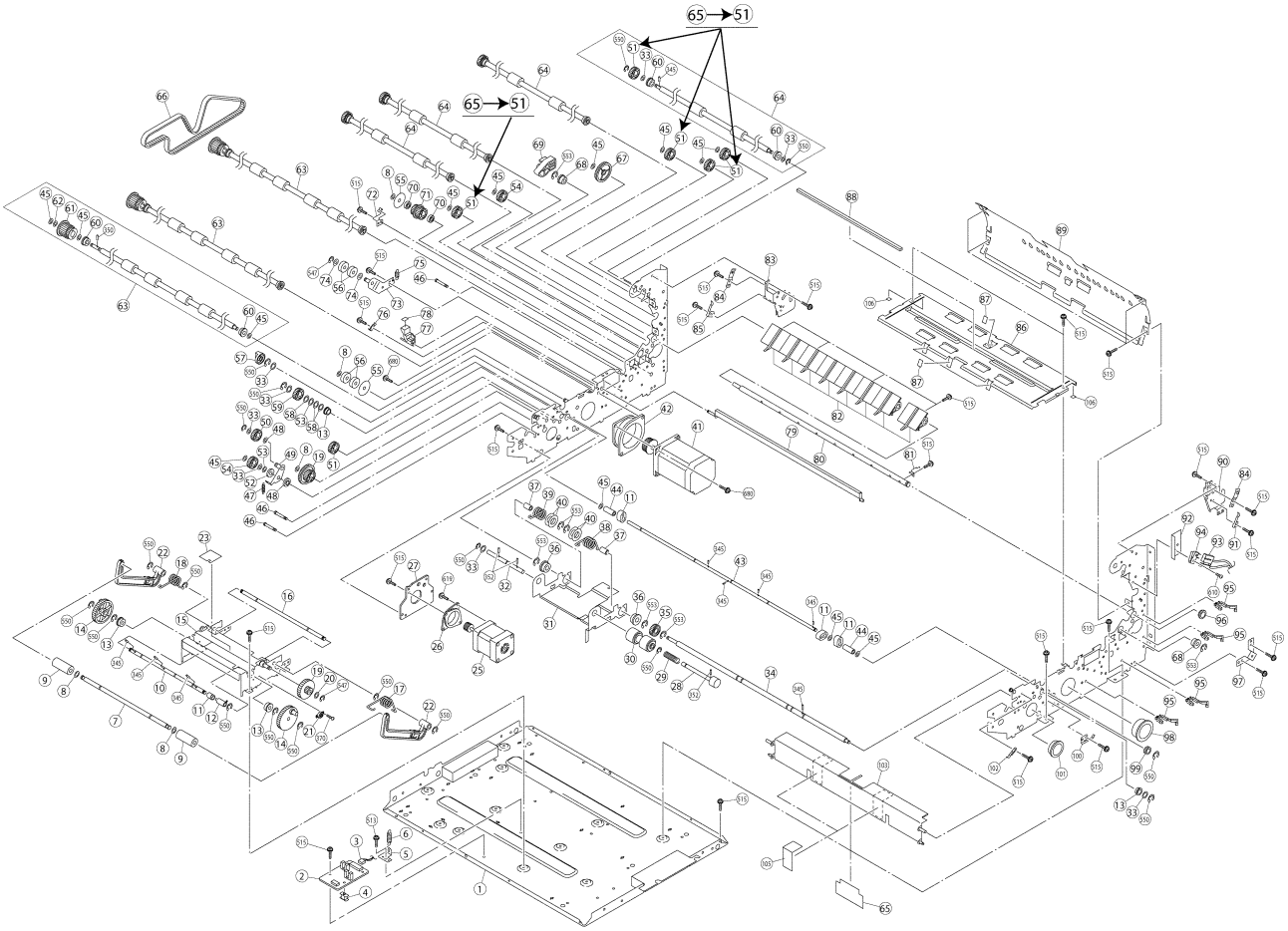
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Replacement Mechanical Parts List (Board Box Unit and others)

Ref.No.	Part No.		Code	Part Name & Description	Remarks
	Original	New			
1	PJKAC0001Z	PJKAC0001X-J	C	Front Cover	
12	A-46-5	A-1046-5	B	Handle	
13	PBQAA0709Z	PJGFC1834Z	C	I/F Board Label (Only for KV-S3065CWCN / KV-S3065CLCN)	
14	PJMDB0269Z	PJMDB0269Y	B	I/F Board Plate	
49	PJMCC0014Z	PJMCC0014Y	C	Power Box Assy	
56	-	PJMCC0089Z	C	Soft Gasket	

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5.3. “Section 14.3 Chassis and Base 1”



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Replacement Mechanical Parts List (Chassis and Base 1)

Ref.No.	Part No.		Code	Part Name & Description	Remarks
	Original	New			
1	PBUEX0096X	PBUEX0096W	C	Bottom Plate-Ass'y	
31	PBMDX0463X	PBMDX0463W	C	Retard Unit Plate Ass'y	
51	PBDGA0008Y	PBDGA0008Y	C	Scanner Drive Gear	
65	PBHEA0116Z	PBHEA0116Z	C	Sheet	

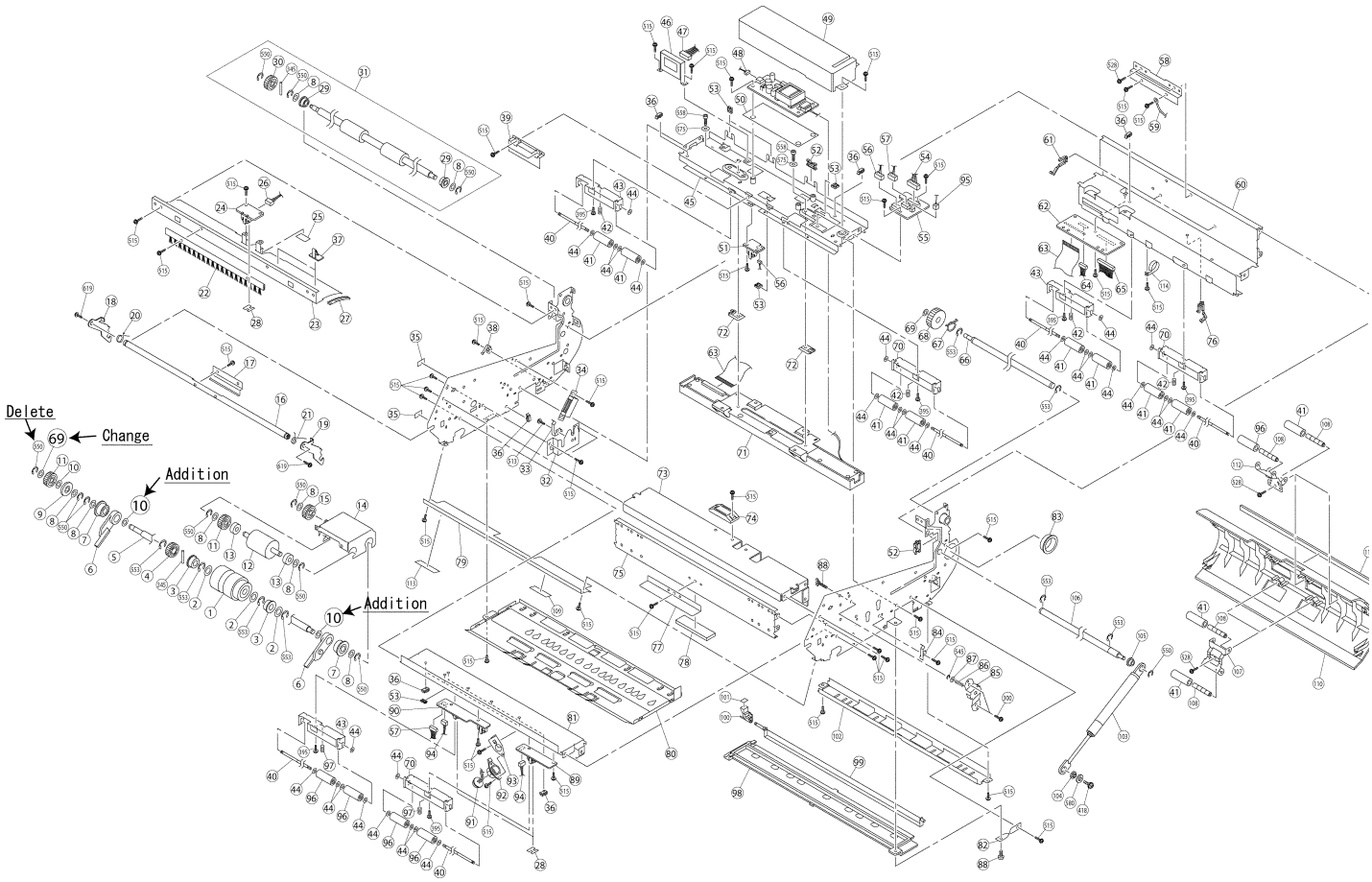
5.4. “Section 14.4 Chassis and Base 2”

Replacement Mechanical Parts List (Chassis and Base 2)

Ref.No.	Part No.		Code	Part Name & Description	Remarks
	Original	New			
11	L2CC0009-J	PJAAC0014Y-J	B	Sensor Unit for KV-S3065CW Series	
11	L2CC0013-J	L2CC0018-J	B	Sensor Unit for KV-S3065CL Series	
13	PPB747ADF23B	PPB747AD23B1	C	CIS (B) RELAY Board for KV-S3065CW Series	(RTL) PbF
13	PPB802ADF23B	PPB802AD23B1	C	CIS (B) RELAY Board for KV-S3065CL Series	(RTL) PbF

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5.5. “Section 14.5 Chassis and Base 3”



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Replacement Mechanical Parts List (Chassis and Base 3)

Ref.No.	Part No.		Code	Part Name & Description	Remarks
	Original	New			
3	DDLF-1280ZZH	GSF-081235	A	Bearing	
7	DDLF-1360ZZR	TPF-613ZZ-5	D	Bearing	
11	PBDGA0013Z	PJDGC0166Z	C	Paper Feed Gear	
12	PBDRA0064Z	PBDRA0064Y	A	Paper Feed Roller	
45	PJULC0010Z	PJULC0010Y	C	Reinforce Plate Upper 2 Ass'y	
62	PPB747ADF23A	PPB747AD23A1	C	CIS (F) RELAY Board for KV-S3065CW Series	(RTL) PbF
62	PPB802ADF23A	PPB802AD23A1	C	CIS (F) RELAY Board for KV-S3065CL Series	(RTL) PbF
71	L2CC0009-J1	PJAAC14Y-J1	B	Sensor Unit for KV-S3065CW Series	
71	L2CC0013-J1	L2CC0018-J1	B	Sensor Unit for KV-S3065CL Series	
98	PJHRC0212Z-J	PJHRC212-J10	C	Image Sensor Cover (F) for KV-S3065CW Series	
98	PJHRC212Z-J1	PJHRC212-J11	C	Image Sensor Cover (F) for KV-S3065CL Series	

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5.6. “Section 14.6 Packing”

Replacement Mechanical Parts List (Packing)

Ref.No.	Part No.		Code	Part Name & Description	Remarks
	Original	New			
1	PJPGC104ZCNL	PJPGC104CNL1	B	Outer Carton for KV-S3065CLCN	
1	PJPGC0104Z-L	PJPGC0104Y-L	B	Outer Carton for KV-S3065CL	
1	PJPGC104Z-AL	PJPGC104Y-AL	B	Outer Carton for KV-S3065CL-A	
1	PJPGC104Z-TL	PJPGC104Y-TL	B	Outer Carton for KV-S3065CL-T	
1	PJPGC104Z-UL	PJPGC104Y-UL	B	Outer Carton for KV-S3065CL-U	
1	PJPGC104ZCNW	PJPGC104CNW1	B	Outer Carton for KV-S3065CWCN	
1	PJPGC0104Z-W	PJPGC0104Y-W	B	Outer Carton for KV-S3065CW	
1	PJPGC104Z-AW	PJPGC104Y-AW	B	Outer Carton for KV-S3065CW-A	
1	PJPGC104Z-TW	PJPGC104Y-TW	B	Outer Carton for KV-S3065CW-T	
1	PJPGC104Z-UW	PJPGC104Y-UW	B	Outer Carton for KV-S3065CW-U	
1	-	PJPGC104Y-KW	C	Outer Carton for KV-S3065CW-K	
3	PBPGA0322Y	PBPGA0322Y-J	B	Bottom Carton (Only for China)	
4	PJPQC0012Z	PJPQC0012Z	C	Bottom Cushion (Except for KV-S3065CW-K)	
4	PJPQC0012Z-J	PJPQC0012Z-J	C	Bottom Cushion (Only for KV-S3065CW-K)	
5	PBPPA0022Z	PBPPA0022Z	C	Vinyl Bag (Except for KV-S3065CW-K)	
5	PBPPA0022Z-J	PBPPA0022Z-J	C	Vinyl Bag (Only for KV-S3065CW-K)	
7	PJQTC0133Z	PJQTC0133Y	B	installation Guide	
8	PJPQC0011Z	PJPQC0011Z	C	Upper Cushion (Except for KV-S3065CW-K)	
8	PJPQC0011Z-J	PJPQC0011Z-J	C	Upper Cushion (Only for KV-S3065CW-K)	
10	PJQXC0026Z	PJQXC0026Y	B	Installation Manual for English	
10	PJQXC0033Z	PJQXC0033Y	B	Installation Manual for China	
13	PBAQA0212P	PJJXC0340Z	B	CD-ROM (Only for China)	
13	PBAQA0212P	PJJXC0203T	B	CD-ROM (Except for China)	

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6 “SECTION 15 REPLACEMENT PARTS LIST”

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer’s specified parts.

Note: Interchangeability Indication

Marks A-G in the Code Column indicate the interchangeability. See following table for details.

A	Original parts → Early New parts → Late production		Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.
B	Original parts → Early New parts → Late production		Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
C	Original parts → Early New parts → Late production		New parts only may be used in early or late production sets. Stock new parts.
D	Original parts → Early New parts → Late production		Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E			Addition
F			Deletion
G			Correction

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6.1. “Section 15.4 CIS (F) RELAY Board”

Ref.No.	Part No.		Code	Part Name & Description	Remarks
	Original	New			
R3000	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor (Only for KV-S3065CW Series)	
R3001	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor (Only for KV-S3065CW Series)	
R3002	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor (Only for KV-S3065CW Series)	
R3003	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor (Only for KV-S3065CW Series)	
R3004	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3005	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3006	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3007	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3008	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3009	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3010	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3011	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3012	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3013	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3014	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3015	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	

6.2. “Section 15.5 CIS (B) RELAY Board”

Ref.No.	Part No.		Code	Part Name & Description	Remarks
	Original	New			
R3016	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3017	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3018	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3019	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3020	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3021	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3022	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3023	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3024	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3025	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3026	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor (Only for KV-S3065CW Series)	
R3027	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor (Only for KV-S3065CW Series)	
R3028	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor (Only for KV-S3065CW Series)	
R3029	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor (Only for KV-S3065CW Series)	
R3031	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	
R3032	ERJ3GEYJ221	ERJ3GEYJ101	C	Resistor	

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Order Number KM70710328SE
Category Number G14

Service Manual

High Speed Color Scanner

Model No. KV-S3065CLSERIES
KV-S3065CWSERIES

Supplement - 3

Subject : Supporting Vista and others

Please file and use this supplement manual together with the following manuals.
1. **Original Service Manual for KV-S3065CL / S3065CW Series (Order No.: KM70410959C0)**
2. **Supplement-1 Manual for KV-S3065CL / S3065CW Series (Order No.: KM70503993SE)**
3. **Supplement-2 Manual for KV-S3065CL / S3065CW Series (Order No.: KM70702246SE)**

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 TOPICS OF MAIN CHANGED CONTENTS

Remarks

Important level codes and Reason codes for the following changed contents

1. Important level codes
 - A: High
 - B: Middle
 - C: Low
2. Reason Codes
 - (1) Change Spec. (Product Number, Engineering change, and others)
 - (2) Add information on Products KV-S3065CL / S3065CW Series
 - (3) Correction

Section No. (Original Service Manual)	Contents	Reference Section on this supplement	Remarks
1	1. Add “Standard for Repair Service”	2. “SECTION 1 GENERAL PRECAUTIONS”	B-(2)
4	1. Support Windows Vista™	3. “SECTION 4 INSTALLATION”	A-(2)
8	1. Change CIS (F)’s disassemblying procedure. 2. Add the measurement in inches about belt tension → 5 mm (0.2 in.)	4. “SECTION 8 DISASSEMBLY INSTRUCTIONS”	B-(1)
14	1. Change part numbers for mechanical parts	5. “SECTION14 PARTS LOCATION AND MECHANICAL PARTS LIST”	A-(1)

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2 “SECTION 1 GENERAL PRECAUTIONS”

2.1. “Section 1.5 Standard for Repair Service”

Repair service shall be provided in accordance with repair technology information such as service manual so as to prevent fires, injury or electric shock, which can be caused by improper repair work.

1. When performing repairs, neither the product nor its parts or components shall be modified.
2. If cable assembly is supplied as the smallest unit when servicing, make sure to replace the cable assembly.

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3 “SECTION 4 INSTALLATION”

3.1. “Section 4.7 System Requirements”

When using the scanner, the minimum system requirements are as follows.

Item	SCSI Connection	USB Connection
Computer	***IBM PC/AT or compatible machine with a CD-ROM drive***	
CPU	***Pentium 3, 1 GHz or higher***	
OS	***Windows® 2000, Windows® XP, Windows Vista™ (64 bit is not available.)***	
Interface	SCSI 3 Recommended SCSI Board Adaptec SCSI 2930U / 2940U / 19160 / 29160N ***With Windows Vista:*** ***Adaptec 29160N / 19160***	USB 2.0
Memory	***512 MB or more***	
HDD	***1 GB or more free space is required.***	

Note 1

1. ***The above system requirements may not meet the requirements of all operating systems and bundled application software.***
2. **The scanning speed differs depending on the host computer’s operating environment or application.**
3. ***If you connect the scanner to a USB hub, it is not guaranteed to work.***
4. ***When using the scanner with other SCSI devices connected by daisy chain connection, it is not guaranteed to work.***

Note 2

1. ***IBM and AT are trademarks of International Business Machines Corporation in the United States, other countries, or both.***
2. **Windows® 2000 is Microsoft® Windows® 2000 operating system.**
3. **Windows® XP is Microsoft® Windows® XP operating system.**
4. ***Windows Vista™ is Microsoft® Windows Vista™ operating system.***
5. **Microsoft®, Windows®, *and Windows Vista™* are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.**
6. **Pentium is a trademark or registered trademark of Intel Corporation or its subsidiaries in the United States and other countries.**
7. **Each company’s name or company product name is each company’s trademark or registered trademark.**

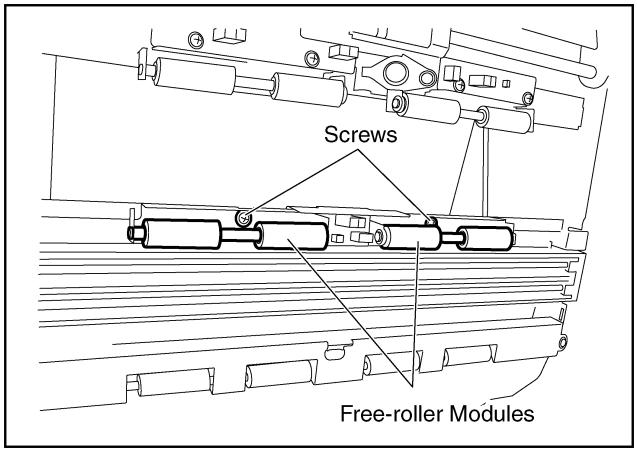
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4 “SECTION 8 DISASSEMBLY INSTRUCTIONS”

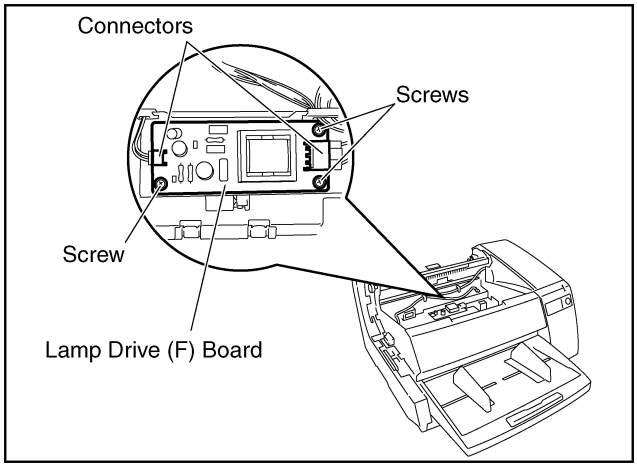
4.1. “Section 8.3 Unit Components

4.1.1. “Section 8.3.5 CIS (F) & Lamp Drive (F) Board”

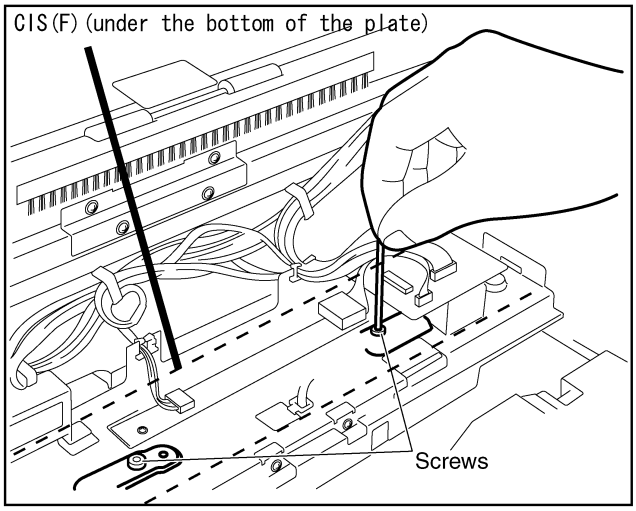
(6) Remove the 2 screws to release the 2 Free-roller Modules from the scanner.



(7) Disconnect the 2 connectors and remove 3 screws on the Lamp Drive (F) Board.

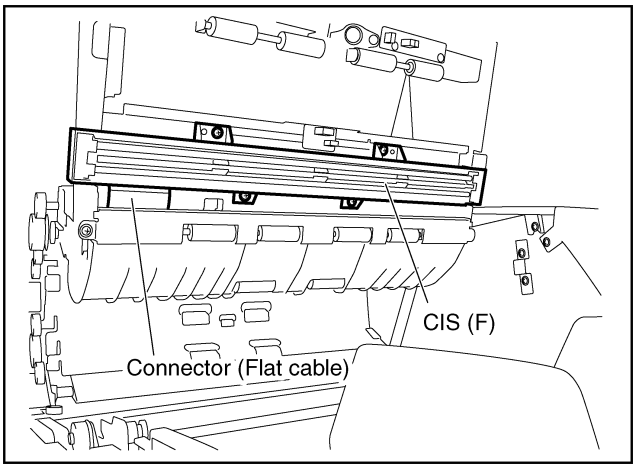


(8) Remove the 2 screws, sustaining the CIS(F) not to drop it down.



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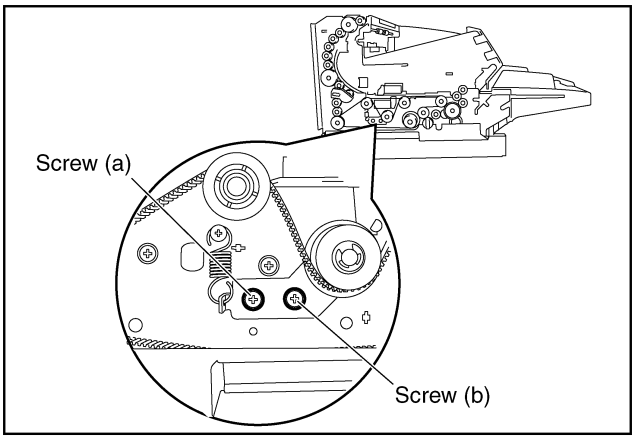
(9) Disconnect the connector (Flatcable) to the CIS (F) RELAY Board, sustaining the CIS(F) carefully not to drop it. And then release the CIS(F) with plate from the scanner.



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4.1.2. “Section 8.3.9 Drive Belt”

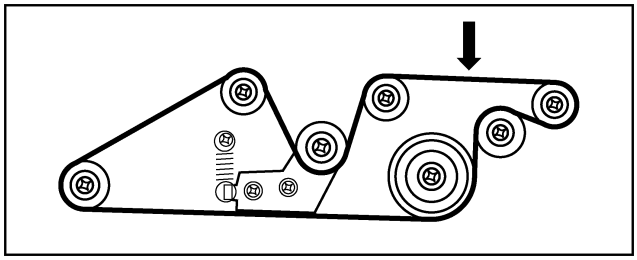
(1) Remove the Conveyor Lower 2. (See 8.3.8.)
(2) Remove the Side Cover (L). (See 8.2.7.)
(3) Loosen the screw (a) and screw (b).
(4) Slide down the spring until it goes and fasten the screw (a).
(5) Remove the Drive Belt.

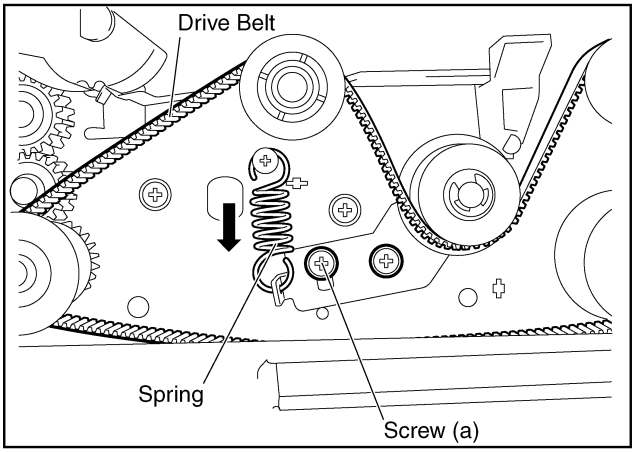


Reassembling Note:

BELT LAYOUT

Tension of the belt: Adjust the belt tension having about 5 mm *(0.2 in.)* bent by pressing the arrow point by finger tip with 5 N.





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5 “SECTION 14 PARTS LOCATION AND MECHANICAL PARTS LIST”

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

Note: RTL (Retention Time Limited)

The “RTL” marking indicates that its Retention Time is Limited. When production is discontinued, this item will continue to be available only for a specific period of time. This period of time depends on the type of item, and the local laws governing parts and product retention. At the end of this period, the item will no longer be available.

Note: TSCA (Toxic Substance Control Act)

The marking (TSCA) in the Remark column indicates that the part shown in the column consist of the substance which are included in TSCA inventory.

Note: PbF (Pb Free)

"PbF" in the Remark column means Pb Free solder is used to assembly part on the PCB assembly.

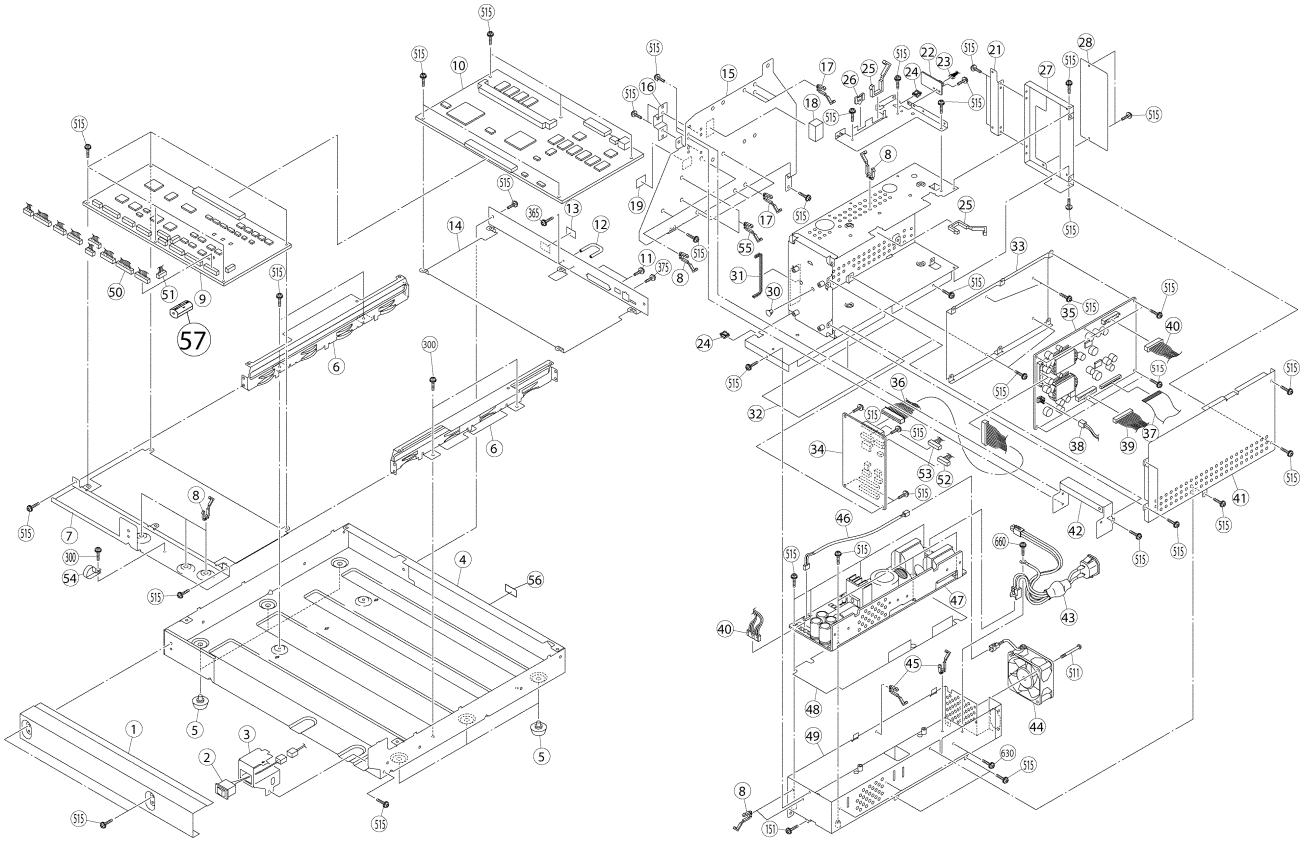
Note: Interchangeability Indication

Marks A-G in the Code Column indicate the interchangeability. See following table for details.

A	Original parts → Early production New parts → Late production		Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.
B	Original parts → Early production New parts → Late production		Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
C	Original parts → Early production New parts → Late production		New parts only may be used in early or late production sets. Stock new parts.
D	Original parts → Early production New parts → Late production		Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E			Addition
F			Deletion
G			Other

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5.1. “Section 14.2 Board Box Unit and others”



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Safety	Ref.No.	Part No.		Code	Part Name & Description	Remarks
		Original	New			
	1	PJKAC0001X-J	PJKAC0001X-J	G	Front Cover (Only for KV-S3065CL-A/-U/ KV-S3065CW-A/-U)	
	1	PJKAC0001X-J	PJKAC01X-J1	C	Front Cover (Except for KV-S3065CL-A/-U/ KV-S3065CW-A/-U)	
	57	-	J0KG00000055	C	Core for KV-S3065CL-U/-A/KV-S3065CW-U/-A	

5.2. “Section 14.6 Packing”

Safety	Ref.No.	Part No.		Code	Part Name & Description	Remarks
		Original	New			
	10	PJQXC0026Y	PJQXC0026X	B	Installation Manual (Except for KV-S3065CLCN/ KV-S3065CWCN)	
	10	PJQXC0033Y	PJQXC0033X	B	Installation Manual (Only for KV-S3065CLCN/ KV-S3065CWCN)	
	13	PJJXC0203T	PJJXC0203S	B	CD-ROM (Except for KV-S3065CLCN/KV-S3065CWCN)	
	13	PJJXC0340Z	PJJXC0340Y	B	CD-ROM (Only for KV-S3065CLCN/KV-S3065CWCN)	

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